The American Artisan
And Hardware Record

Vol. 53. No. 22. CHICAGO, JUNE 1, 1907. $2.00 Per Year.

BOLTS

Of All Kinds. Nuts, Washers and Carriage Forgings.

COLUMBUS BOLT WORKS, COLUMBUS, — OHIO —

IN THE FRONT RANK FOR 25 YEARS

"AMERICAN SEAL"

ELASTIC OIL ROOFING CEMENT
STOVE PUTTY and ASBESTOS
FURNACE CEMENT

and the superior quality of these goods is still universally recognized.

THE WM. CONNORS PAINT MFG. COMPANY
MAKERS
TROY, N. Y.

Western Agent — PERKINS ROOFING & SUPPLY CO. 235 Lake St., Chicago, Ill.

Southwestern Agent — STOCKHOFF SUPPLY COMPANY 107 N. Main St., St. Louis, Mo.

TRYING to do business without advertising is like winking at a girl in the dark: you know what you are doing but nobody else does.

NEW DESIGN WORLD'S BEST TUBULAR TRACK DOOR HANGER

We have increased the diameter of the wheel to 2¼ in., making it the easiest running Hanger on the market.

The supplementary wheel prevents derailment. Frame is made of best grade malleable iron. Finished in Aluminum and each pair packed in an individual box, complete with bolts. The track brackets are slidable and may be placed at any point desired. We do not sell catalog houses. Write for prices.

SAFETY DOOR HANGER CO.
Manufacturers
Ashland, Ohio — Hamilton, Ont., Can.

U. S. CLOTHES PINS

Never rust, smut, split, or blow off the line.

Any special clips made to order.

U. S. CLOTHES PIN COMPANY
Montpelier, Vt., U. S. A.

DELTA FILES DELTA FILES

FILES OF QUALITY

DELTA FILES

TRADE MARK DELTA

Lest You Forget—We Say It Yet

DELTA FILES

CARVER FILE CO., - Philadelphia, Pa.

An independent organization not connected with the trust in any form, shape or manner.

CHAIN—Furnace, Damper or Ventilator

"TRIUMPH"

ELEVEN times as strong as Jack Chain.

CUTS ARE EXACT SIZE

"BROWN"

CHEAPEST because they are the BEST

STRONGEST Chain in the World.

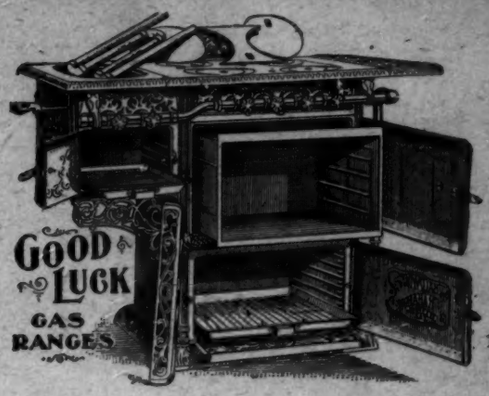
"Triumph" or "Brown"

MADE IN EITHER

Steel or Brass.

GET OUR PRICES.

MADE ONLY BY **THE BRIDGEPORT CHAIN CO., Bridgeport, Conn.**



"Duty well done is noble, if properly advertised it is fame"

The Fame of the

Good Luck Natural Gas Ranges

rests on the public's appreciation of their merits.

For there is no other advertising equal to the enthusiastic praise of satisfied customers.

This phenomenal success of the Good Luck Gas Ranges has made us competition, but competition has not made the equal of the Good Luck Gas Ranges.

Good Luck Needle Point Valves have needle points.

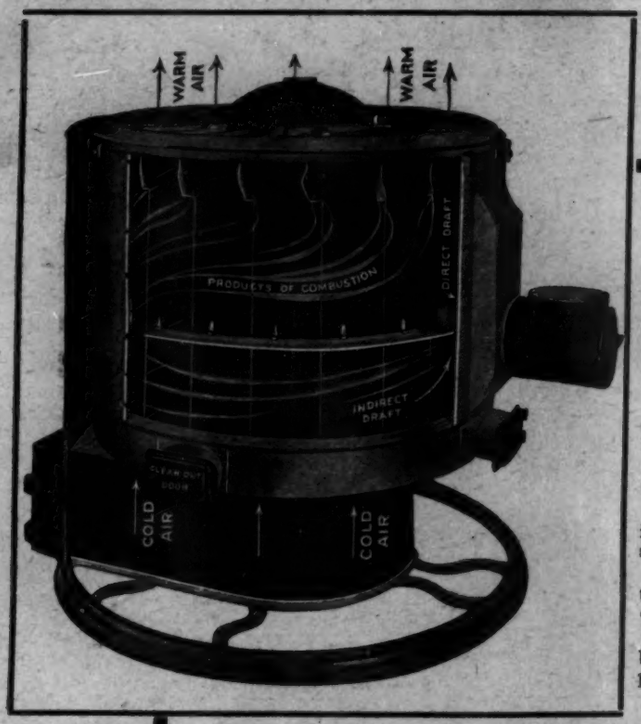
Good Luck Burners are made in one piece and differ in shape, size and operation from all others.

Good Luck Gas Ranges are fitted with an individual flue system, which is an absolute necessity in the economical use of Natural Gas.

In the selection of materials and in the process of manufacture we use every precaution that makes for perfection. We leave nothing to the "Rabbit's foot"—we make it sure.

Stove & Range Company of Pittsburgh

Pittsburgh, Pa.



The Man Who Investigates!

The man who builds a home, or buys a new heating system, wants the best he can get for his money,—and you've probably noticed, he buys with more care than formerly.

And that's just why it's so easy to sell KELSEY Warm Air Generators.

The more a prospective buyer will investigate,—the higher will be his opinion of the KELSEY Generator!

Why don't you get away from price-competition?

Why don't you plan to do a better class of business,—that is, get more money for your work, and go after the big jobs?

There's a much brighter future in it for you—than to continue trying to be the lowest bidder.

With the KELSEY, you have a construction that is entirely different, and an apparatus that has very strong "talking points".

And when you stop to think of it,—the fact that **the man who investigates usually buys a KELSEY,**—doesn't that prove the KELSEY appeals to the public?

We'd like to show you how you can go after a better class of heating business, and make a larger profit for yourself.

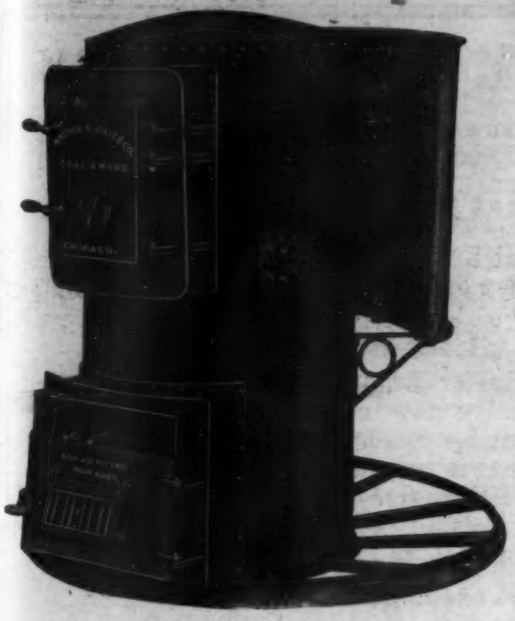
May we go over the matter with you?

KELSEY HEATING CO., SYRACUSE, N. Y.

New York City:
156 Fifth Avenue

VAN EVERA & LEWIS MFG. CO.
104-106 W. Lake St., Chicago

JAMES SMART MFG. CO., Brockville, Ont., Sole Makers for Canada



All Steel Furnace

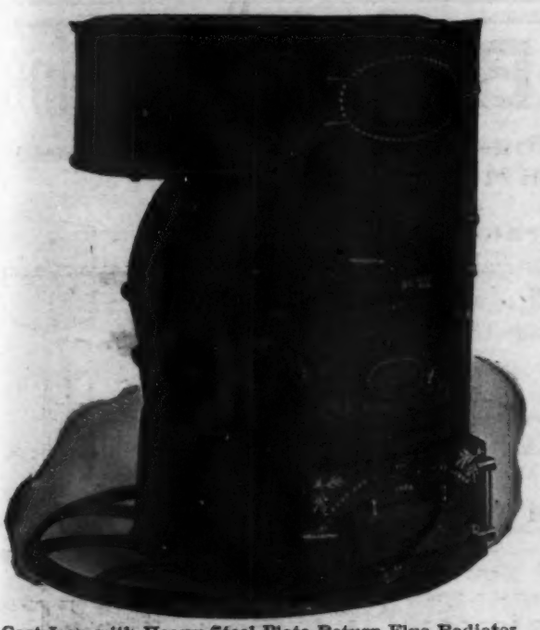
NEW BLOOD!
NEW IDEAS!
NEW FIRM!
NEW FURNACES!

A new and complete line of warm air furnaces—made in every style—for every fuel—and adapted for every climate—all cast iron—all steel—cast iron with steel radiator—all with one name—one style—one quality—THE BEST.

With a life long experience in furnace work, this complete new line embodies many practical improvements, and the entire line will carry the name of

WALTER S. RAIT & CO.

which will be a synonym for all that is best in warm air furnaces.



Cast Iron with Heavy Steel Plate Return Flue Radiator
Also made with large feed door, 14x15 inches.

All Cast Iron, with Radiator cast in one piece.
Also made with large feed door, 14x15 inches

Write for our illustrated descriptive matter—learn our prices and you will WANT the AGENCY.

WALTER S. RAIT & CO.

Inventors, Designers and Manufacturers

211-213 Lake Street **Chicago, Illinois**

The MASTER ECONOMY is a SPECIALTY

It is more different from the common run of stoves than any other practical heater on the market. It has a

Tremendous Sale

NEW IDEAS have been incorporated in the construction of this stove. It is a giant among others—

Chief of Them All

The Master Economy is a Specialty—the best specialty now before the trade. It is a base heater for hard coal, soft coal, or wood. A stove that is economical.

It is THE master of economy. Built well, durable. It is a heater that will sell

Because

It saves one-half the fuel.
It is noted for simplicity.
It is highly ornamented.
It is a heater that gives absolute satisfaction.
It pays a Good Profit.

MANUFACTURED BY

Comstock-Castle Stove Co.
Quincy, Ill.

Mechanical Efficiency of B. & B. Gasoline

A STOVE WITH THE FINE WORKMANSHIP OF A HIGH JEWELED WATCH MOVEMENT

You will find the **B. & B. Single Generator Gasoline** throughout a splendid example of twentieth century mechanical methods. Each minute detail of valves and joints has its own set of tools, specially designed to execute that particular operation with accuracy. What better insurance can you ask against the petty annoyance of leaky joints and loose valves?

We know each stove is right when it leaves our works, for it has been operated for a considerable length of time by a man who knows gasoline stoves from A to Z. Write for prices and detailed description.

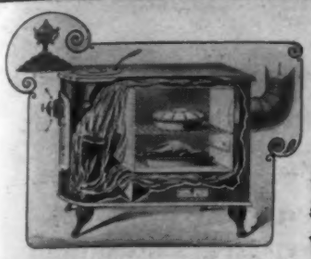
A STOVE WELL WORTH WHILE

You will be impressed with the value of our generating cup combustion chamber which heats the burner with a pure blue flame. This means generating **without smoke** or **soot.** You will also like the weight and size of our burner castings for they insure long life with efficient service

GLAZIER STOVE CO.

CHELSEA, MICHIGAN

Chicago Agent, W. D. SAGER
38 Michigan Street



Your name on a postal brings Catalogs and full information

Do a Paying Stove Business

We wish to tell every merchant who reads this ad. how he can make big money handling our **Wonderful Cosby Patent Bakers and Heaters.** No more useful or salable household article on the market.

UNION STOVE COMPANY, Inc., 501 Mutual Bldg., Richmond, Va.

More Points of General Merit

are found in the

PEORIA LEXINGTON STEEL RANGES

than in any other

They have all the latest improvements of practical value to Steel Ranges. They are the best, most substantial, most perfect operating ranges made. There are

Many Good Features

embodied in the Peoria Lexington Steel Range. Thermometer in Oven, Large Fire Box, Duplex Grate, Deep Ash Pit, Large Bailed Ash Pan, Ash Chute, Large Pouch Feed Door with Register and Zero Drop Handle. Cast Iron Back Flue or Smoke Box, Oven Bottom very heavy, securely braced, NEVER BREAK OVEN DOOR (recently patented), High Closet Roll Top Door, Enameled Reservoir, Nickel Ornamentation very elaborate, elegant and attractive, Aluminized Oven.

Write for Printed Matter.

Culter & Proctor Stove Co.

Hamilton and Water Street PEORIA, ILLINOIS

Our Motto is and Always has been Not How Cheap—But How Good.

Ranges CHEAP—Not CHEAP Ranges

You can buy of me, steel ranges that will outclass any catalogue-house ranges. **Positively the best ranges obtainable for the money.**

Willard Steel Ranges

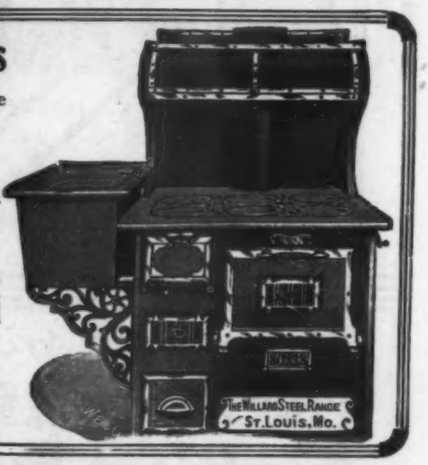
are good, honest quality, durable, economical ranges at a L-O-W P-R-I-C-E. They are made well, bake well, cook well and **Sell Well.**

QUICK SELLERS—GOOD PROFIT

There is an enormous demand for **Willard Steel Ranges.** Extensively advertised; people know them—want them—and the quicker you get them in stock the more money you'll make. For the good of your pocket book—write—I will make you the greatest proposition on ranges ever offered.

YOUR OWN NAME PLATE ON RANGES ON ORDERS OF TEN OR MORE.

WM. G. WILLARD, Room No. 28 Willard Bldg., (316 CHESTNUT STREET) **St. Louis, Mo.**



Any Dealer Can Make Money

By Selling

THE O-HI-O STEAM COOKER AND BAKER

It is being made known to more than **Ten Million Women** through our extensive advertising campaign. These women are constantly reading about the "O-HI-O" in all the leading publications. Through this extensive advertising, we are receiving **thousands of inquiries** from every town in the country, and these inquires are immediately referred back to our local dealer, (if we have one). A number of dealers have already taken hold of this extraordinary offer and say that the **O-HI-O STEAM COOKER** is the best; is a good A-1 seller and pays the largest profit.

Fine Electrical Display Stand, Display Cards and Literature furnished all dealers.

Remember—to sell the O-HI-O Steam Cooker and Baker means "To Make Money". You are surely in business for the profit you make. *Well, then, write*

THE O-HI-O COOKER CO., 531 Jefferson Ave., Toledo, Ohio

PUBLIC AUCTION OF CAHOONE PATENTS FOR STOVES AND RANGES burning soft coal.

The undersigned, Receiver of the Federal Stove Company, under an order of the Court of Chancery of New Jersey, will sell, at public auction to the highest bidder, on the conditions which will be furnished to parties interested, upon request, United States patents Nos. 550865, 582174, 698630, 11810; Nos. 698796 to 698810 both inclusive; Nos. 742161, 775328, 763851 and 529376; Canadian Patents Nos. 73118, 64305, 76136, 92308 and 92309; and Cuban Patents Nos. 1772 to 1792 both inclusive. Assignments of the above patents not yet recorded, have been executed by the officers of the said Company to its receiver. Sale will be held July 15, 1907, at 2 p. m., at the office of

Alfred F. Stevens,
Receiver of the Federal Stove Company.
738 Broad Street, Newark, N. J.

Bids May Be Made By Mail.

HEAT LIGHT FOR THE HOME STORE HOTEL SCHOOL CHURCH OFFICE COLLEGE THEATRE FACTORY VILLAGE
INFORMATION FREE SEND FOR IT
DETROIT HEATING AND LIGHTING CO. DETROIT MICH.

Champion Mission Cooker

Three-Burner Style

Is Something Entirely New in Gas Cooking Stoves
Something Everybody Will Want

THE Champion Mission Cooker, made of heavy steel and angle iron, nicely black japanned and strongly braced, having loose grate over each burner, is an **ideal, economical summer cooker,** for by the addition of an oven anyone can have a **first-class** permanent **gas cooking** and **baking apparatus** at about **one-third** the **cost** of a gas range. Made in two and three burner styles.

Don't be Too Late to Get the Agency
Order Now and Make Sure

THE CHAMPION STEEL RANGE CO.
CLEVELAND, OHIO

Dealers Who Are Selling The

NEW AKRON Air Blast Furnace

Control the Trade

The **NEW AKRON AIR BLAST** embodies all the **GOOD FEATURES** of the old original and many new ones. You can not afford to handle any other furnace when you can get the **AKRON AIR BLAST.** Read the testimonials from parties who have used the furnaces from 15 to 17 years.

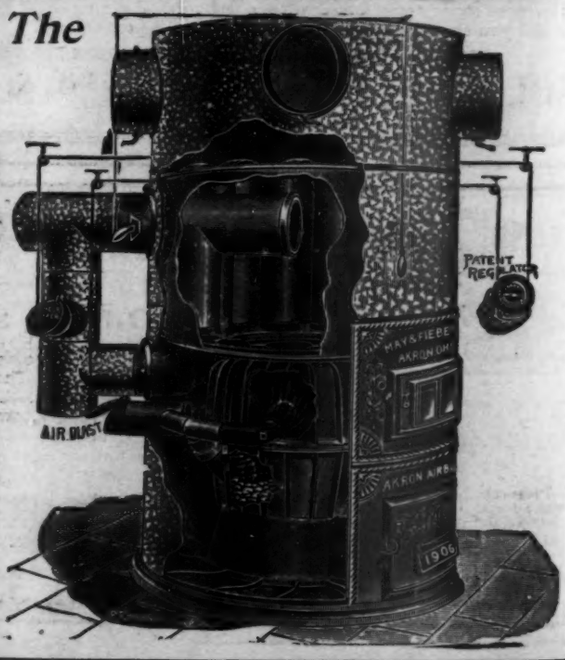
Akron, Ohio. March 27, 1907.

MAY & FIEBEGER, Akron, Ohio.

DEAR SIRS:—In regard to your inquiry, will say, since we put the Akron "Air Blast" Furnace in, in 1890, we have had no repairs excepting an elbow in the smoke pipe. Since that time it has given perfect satisfaction in every way. The furnace has never been cleaned.

For some time we have been using gas in the furnace and find it to be as economical in its use of gas as it was in its consumption of coal.

Yours respectfully,
LUCINDA GOODWIN.



Send for Catalogue and Prices to the Manufacturers

MAY & FIEBEGER, Akron, Ohio

The Canton Furnaces

Long Draft returning through main radiator. Clinker Punch for cleaning grate. No other furnace has these features.

Big Steel Radiator — Tubular. Perfect Blast Device. Not in the cheap class. DO YOU SELL THEM?

THE BONNOT CO., Canton, Ohio

Economy, Cleanliness, and Durability all combined in the

Moncrief

WARM AIR FURNACE

A few of the many good points of the **Moncrief**
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.
825-29 Long Ave., N. W.
CLEVELAND, O.

Western Sales Agent
J. C. KIMMEL, 3314 E. 15th St., Kansas City, Mo.

CUT THIS OUT

To the Publishers
The American Artisan and Hardware Record
69 Dearborn Street, CHICAGO

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars for one year's subscription, or 50 cents in case we decide to discontinue.

Name .....
Address .....
Town ..... State .....

Your June Needs

You'll find them in our June catalogue—yours for the asking.

Incidentally, too, that June catalogue will help you to realize better all the possibilities—for you—in the four-house scale of our operations.

With market conditions generally such as make the mere getting of the goods none too easy for the ordinary jobber, our June offerings are decidedly suggestive.

Not only have we all the goods that the June catalogue shows, but also you will find the usual plenty of leaders in every department—**with extra special Sporting Goods and Summer Sales.**

Shall we send our June catalogue No. MC615—to YOU?

BUTLER BROTHERS

Wholesalers of General Merchandise

NEW YORK CHICAGO ST. LOUIS MINNEAPOLIS

Sample Houses: Baltimore, Dallas

The Peck-Hammond Co.'s

"600 SERIES" FURNACE

Wholly modern, all cast construction, providing strength and durability.

Tubular Radiator provides perfect circulation of hot air.

Winged fire pot largely increases radiating area.

Perfectly Made
Perfectly Mounted
Gas Tight

A Popular Furnace
A Perfect Worker

Catalogues on Application

The Peck-Hammond Co., Cincinnati, O.

THATCHER

"Crescent"

Warm Air Furnaces

For WOOD and COAL BURNING

Our **latest production.** Direct and indirect draft—Smoke Collar quickly changed for right or left —by reversing Division Plate.

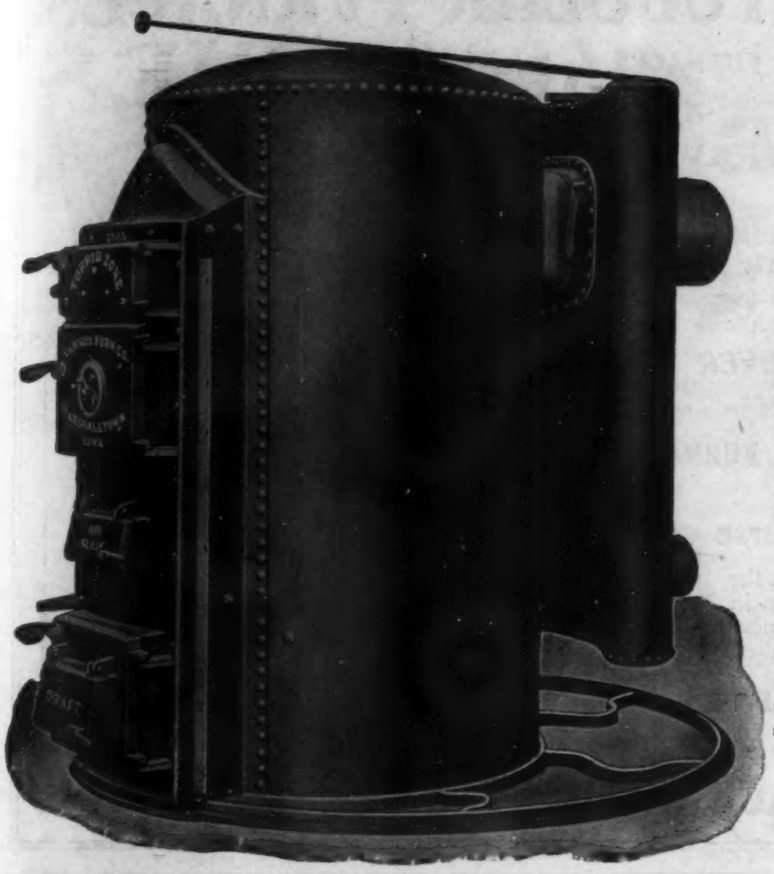
Water Coil Openings.
Wood and Coal Grates.
Double Feed Doors.
Deep Ash Pits.

Send for Prices.

Thatcher Furnace Co.

110-116 Beekman St., New York
204 E. Lake St., Chicago

Large Radiating Surface Important



It is the radiating surface which determines the amount of heat a furnace is going to get out of the fuel used. The size of the fire pot determines the amount of fuel a furnace will burn.

Lennox Torrid Zone

steel furnaces have very large radiating surface nearly doubled in area by the extra indirect radiator through which the hot smoke is made to pass for eight feet of smoke travel. A hanging partition in this radiator causes the smoke to descend within eight inches of the bottom of the radiator before passing up the other side. This is longer smoke travel than any other furnace has and is possible only by reason of the convenient direct and indirect draft change. In Torrid Zone furnaces the indirect draft does not have to be strong enough at all times to permit of opening the fuel door for the direct draft can be had at one pull of a damper rod. Thus when fuel door is closed and damper is turned for indirect draft more of the hot gases can be held back from escaping up the chimney and used as fuel. This makes Torrid Zone furnaces fuel savers. It is only one of the many great selling points of this furnace.

WRITE FOR 40-PAGE CATALOG

Lennox Furnace Co.

Marshalltown, Iowa

Monarch Air Blast

All the advantages of our famous MONARCH plus the air blast. This is a sectional upper fire pot constructed so that oxygen is fed into and above the fuel burning the gases, assuring economy, cleanliness. It is the most practical soft coal furnace offered the trade.

Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO

Mfrs. The Imperial, Niagara and Combination Furnaces, Registers, Mail Boxes, Hitching and Sash Weights, Etc. Write for our new Catalog.

ROBINSON TUBULAR FURNACES

ARE THE ONLY TUBULAR FURNACES

Having Direct Draft and Return Flue

WITH LONG FIRE TRAVEL

Large Radiating Surface
Seamless Boiler Flue
Broad and Deep Ash Pit

The Dust Flue with Damper Allows

NO ASHES WHATEVER

To pass out into basement

ALL ROBINSON TUBULAR FURNACES

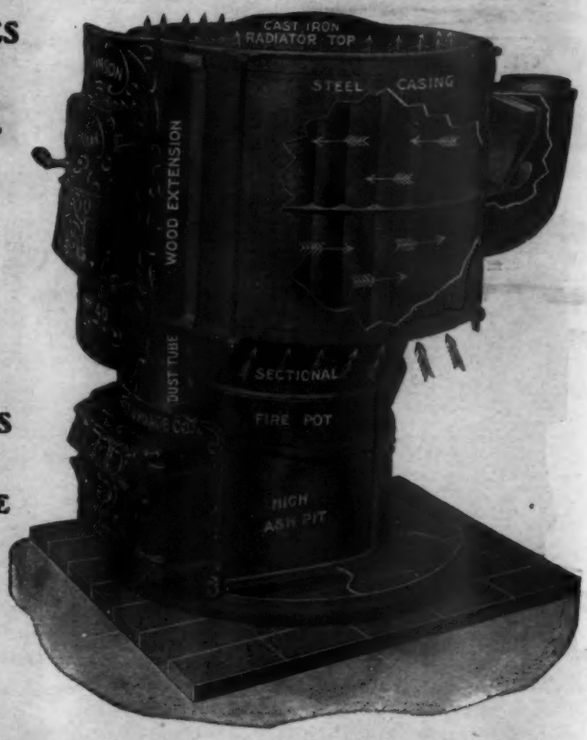
Are supplied

WITH THE CELEBRATED ECLIPSE GRATE

The fire travels farther in the "Robinson Tubular" than in any other furnace — more heating capacity, also

REDUCE COAL BILLS

Send for Catalogue



ROBINSON FURNACE COMPANY, 107-109 Lake St., **Chicago, Ill.**

1849 **BOYNTON** 1907

BOYNTON'S PATENTED SQUARE POT

Warm Air Furnaces

Hot Water Heaters and Steam Boilers

Have stood for an honest value for nearly sixty (60) years—more than half a century. Their reputation has a firm foundation. They were the best then, they ***are the best now.*** ***Always first*** with every ***real improvement.***

Boynton Furnaces are made of cast iron or steel plate, or combination of both—portable or brick set—for hard or soft coal, wood, lignite, or any fuel, and are adapted for any climate.

The New Patent Square Firepot Found in all Boynton Furnaces.

CRUSADER

ADMIRAL

Boynton Furnaces have built a ***reputation*** for many dealers and they will do the same ***for you.***

DO YOU WANT ***To build*** a reputation for yourself
To increase your business
To satisfy your customers **SELL THE BOYNTON**

Catalog and Prices Cheerfully Sent on Request

THE BOYNTON FURNACE COMPANY, 147-149 Lake St., Chicago

J. H. MANNY, C. E. MANNY, Chicago Managers NEW YORK OFFICE, 207-209 WATER STREET

PACIFIC COAST AGENTS:
J. C. BAYER FURNACE CO., Portland, Ore. FINLAY & ROBB, Seattle, Wash. WM. BROWN, Spokane, Wash.
HOLBROOK, MERRILL & STETSON, San Francisco, Calif.

100 Tinners' Patterns

THE AMERICAN ARTISAN FULL SIZE PATTERNS

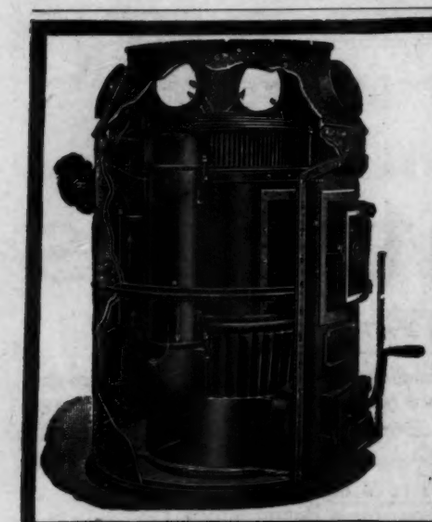
Comprise patterns for a full line of tinware, in numerous sizes, square and round elbows, cut-offs, etc. These full-size patterns, numbering upward 100, are printed on manilla paper, from which they are readily transferred to heavy sheets and cut out ready for use. The list contains the following patterns:

Tea Steeper
Two-pint Tea Pot
Three-pint Tea Pot
Four-pint Tea Pot
Five-pint Tea Pot
One-quart Coffee Pot
Two-quart Coffee Pot
Three-quart Coffee Pot
Four-quart Coffee Pot
Five-quart Coffee Pot
No. 1 Coffee Boiler.
No. 2 Coffee Boiler
No. 3 Coffee Boiler
Lamp Filler
One-pint Dipper
One-quart Dipper
Two-quart Dipper
Four-quart Flaring Pail
Six-quart Flaring Pail
Eight-quart Flaring Pail
Ten-quart Flaring Pail
Twelve-quart Flaring Pail
Fourteen-quart Flaring Pail
Ten-quart Dish Pan
Twelve-quart Dish Pan
Fourteen-quart Dish Pan
Sixteen-quart Dish Pan
Dinner Bucket
Five-inch T-Joint
Six-inch T-Joint
Eave Trough Mitre Joint
"Snap" 2-inch Conductor Elbow
Cullender
Two-inch Square Elbow
Two-and-a-half-inch Square Elbow
Three-and-a-half-inch Square Elbow
Four-and-a-half-inch Square Elbow
Five-and-a-half-inch Square Elbow
Six-and-a-half-inch Square Elbow
Seven-and-a-half-inch Square Elbow
One-pint Funnel
Two-pint Funnel
Three-pint Funnel
Four-pint Funnel
Small Milk Strainer
Large Milk Strainer
Ten-quart Milk Pail Breast
Fourteen-quart Milk Pail Breast
Two-inch Four-piece Round Elbow
Three-inch Four-Piece Round Elbow
Four-inch Four-Piece Round Elbow
Five-inch Four-Piece Round Elbow
Five-and-a-half-inch Round Elbow
Six-and-a-half-inch Round Elbow
Seven-and-a-half-inch Round Elbow
Small Grocers' Scoop
Medium Grocers' Scoop
Large Grocers' Scoop
Apple Corer
Oval Foot Bath
Oval Pudding Pan
Half-gallon Can Breast
One-gallon Can Breast
Two-gallon Can Breast
Three-gallon Can Breast
Half-pint Measure
One-pint Measure
One-quart Measure
Half-gallon Measure
One-pint Basin
Two-pint Basin
Three-pint Basin
Four-pint Pan
Six-quart Pan
Ten-quart Pan
Small Cake Pan
Medium Cake Pan
Large Cake Pan
Small Wash Basin
Large Wash Basin
Sprinkler Breast
Four-gallon Churn
Five-gallon Churn
Small Dust Pan
Large Dust Pan
Five Sizes Funnel Patterns
Oval Dinner Bucket
Rain Water Cut-off
No. 7 Boiler Cover
No. 8 Boiler Cover
No. 9 Boiler Cover
No. 7 Boiler Bottoms
No. 8 Boiler Bottoms
No. 9 Boiler Bottoms

THE AMERICAN ARTISAN full size patterns are a great convenience, and in no other way can they be obtained at so small a cost. Price, sent postpaid for the

FULL SET OF 100 PATTERNS $1.00.

DANIEL STERN, 69 Dearborn Street, CHICAGO, ILL.



The Record of the

FLORAL CITY FURNACES

During the past ten years has never been equalled. They are, as a line, the BEST FITTED AND MOST POWERFUL, ECONOMICAL AND DURABLE FURNACES MADE, and we stand ready to prove this at any time by actual test. Perfect castings, skillful workmanship, careful supervision, these are the features that mark the superiority of the Floral City.

Monroe Foundry & Furnace Co., Monroe, Mich.

THE

HOLLAND FURNACE

HAS A

DOUBLE AIR ADMITTING FIRE-POT

WHICH

Burns all Gases

FOR

Economy, Durability and Simplicity of Operation

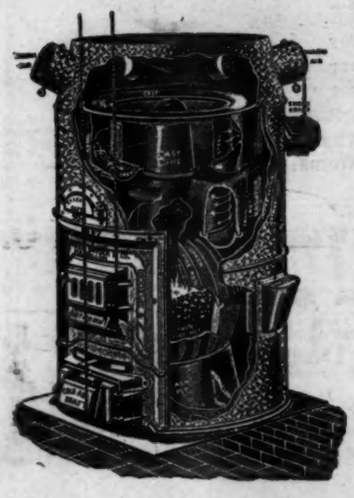
THE

HOLLAND HAS NO EQUAL

Our 1907 Catalogue for the asking

HOLLAND FURNACE CO.
HOLLAND, MICH.

BOOMER FURNACES



Quickly Establish a Local Reputation

It is always a little hard to introduce an old Furnace in New Territory.

But the first BOOMER Furnace you sell will pave the way for an unlimited profitable furnace business.

It is likewise better to take an old, time-tried furnace like the BOOMER, and sell it in new territory, than to continue selling, or endeavoring to sell, a Furnace that does not "stand up" the way you would like to have it.

The BOOMER Furnace is one of those always-reliable, sure-to-give-satisfaction commodities that is a genuine pleasure to sell.

The BOOMER Agency, remember, has attractive inducements.

We'll gladly send you our Furnace catalogue upon request.

The HESS-SNYDER COMPANY
Manufacturers MASSILLON, OHIO

GILT EDGE BADGER FOR HARD COAL

COMBINES ALL THE FEATURES
necessary to make it a most convenient perfect working and economical furnace.

CAST FIRE SECTION
with steel dome and return flue radiator.

PERFECTLY BUILT
and perfectly mounted and having the best of all modern conveniences. Made in 20, 23, 26 and 29-inch fire-pots.

CATALOGUE ON APPLICATION

R. J. SCHWAB & SONS' CO.,
MILWAUKEE, WIS.

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

NEVER BREAK **CIRCLES PERFECT**

With Lugs—For Double Casings
Without Lugs—For Single Casings
Full Circles—For Ordinary Use
Partial Circles—For Full Cast Fronts

Always to Exact Circumference From Your Own Dimensions
Write Now

READY TO USE **INCREASE PROFITS**

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., **Cleveland, O.**

Makers of Fine Grey Iron Castings :: :: Mfrs. of Semi-Steel Registers

CHAS. SMITH CO., Chicago, Ill., write: Kindly take out our advertisement for practical furnace men as we have more answers than we can take care of. 6-14-5

We Stand for the Cast Iron Furnace

First, Last and Always—Why?

BECAUSE experience has proven that they are the only furnaces made that will resist the destroying elements of fire for the longest period of time, and under the most severe tests. Besides they are impervious to the action of rust.

THEY WILL NOT RUST OUT WHEN NOT IN USE

The furnace dealer who handles carloads, as well as the one who installs but one or two a year, will find in the **MONITOR** line, a **FURNACE** for **any** kind of **fuel,** and a variety of sizes together with all the up-to-date features which has made this line the most popular throughout the Middle West.

Let us quote you on FURNACES, REGISTERS and FITTINGS

KEITH FURNACE COMPANY, Mfgrs., DES MOINES, IOWA

McKELVEY & YOUNG, 300 Broadway, Monmouth, Ill. Distributors for Illinois Territory.
B. LANGE, Sparta, Wisconsin. Distributors for Southern Wisconsin.
Council Bluffs Sheet Metal Works, Council Bluffs, Iowa. Distributors for territory west of Missouri River.

Lion Furnace

Can use Hard or Soft Coal

Giving the
GREATEST HEAT
with the
LEAST FUEL
Pot interchangeable with our
APEX FURNACE
Durable, simple in construction and a
FINE SELLER
Write today for catalogue.

Rood & McIntyre, Kansas City, Mo.
Southwestern Distributors

YOUNGSTOWN FURNACE & SUPPLY CO.
YOUNGSTOWN, OHIO
Chicago Office, 211-213 Lake Street

High Merit based upon proper construction makes

THE WISE

a favorite in the hearts of those who are well informed and know real excellence.

GET A CATALOGUE AND LEARN MORE ABOUT IT

The Wise Furnace Co.

AKRON, OHIO

One of the Sure Sellers

THE MAJESTIC

Coal or Wood

CHUTE

Heavy Wrought Steel Fame, Body and Hopper.

Neat cast door which automatically locks itself open or shut. Door closes flush with the wall. Made in three sizes.

Secure the Agency NOW.

The Chappell Furnace Co.
MORENCI, MICHIGAN
1005 Monadnock Bldg., CHICAGO, ILL.

The Novelty Warm Air Furnace System

An absolutely sure and correct method of securing the best and most healthful results in heating and ventilating residences or other buildings. Approved by Heating Engineers, Architects and Physicians.
Do **you** wish to **know** more about it?

The Novelty Furnace Handbook will tell you

ABRAM COX STOVE COMPANY

15 to 19 West Lake St., Chicago
No. 6 Portland Street, Boston

American and Dauphin Sts., Philadelphia

DON'T BORROW TROUBLE

You are borrowing trouble every time you install a furnace of cheap construction—your troubles never end with such a job.

Insure against trouble on your heating jobs by installing the MUELLER Double Radiator, All-Cast Furnace.

Not a bolt, screw or rivet used in its construction. Positively gas tight. Lasts a lifetime.

The MUELLER Double Radiator All-Cast Furnace costs more than the cheap kind—but your customers will gladly pay the difference.

Do you wish the agency?
If so, write for it to-day.

L. J. MUELLER FURNACE CO.

191 REED STREET ESTABLISHED 1857 MILWAUKEE, WIS.

A Furnace With Special Features

Which will appeal to your customers with a big margin of profit is what you are looking for. Why sell a Furnace almost like your competitor's? A man to make money must get a specialty and push it. It costs no more than any good furnace and sells a great deal easier.

GREEN'S COLONIAL FURNACE

Hot Air Blast Fire Pot which allows the heated air to pass into and over the fire, converts the gas and smoke into heat ***reducing coal bills.***

Double Feed Doors which admit large chunks of coal.

Long Distance Heating by means of the oval opening through the center of radiator. The rooms fartherest from the furnace can be as easily heated as rooms with short runs. Heavy radiator with ***long smoke travel,*** provided with ***direct draft*** and cleanout.

Grate bars ***each operating independent*** of the others, three outer supports instead of one inner support; ***deep ash pit, large combustion chamber; water coil pocket; one-piece base ring; large hot air chamber. Heavy, Durable, Economical.***

WRITE FOR DISCOUNTS! ORDER A SAMPLE

Green Foundry and Furnace Works, (Dept. A) Des Moines, Iowa

REGISTERS

Semi-Steel Floor—Cast Iron Floor
Wrought Steel Special Side Wall
Cast Iron Special Side Wall

We make them all—in all finishes
Get our prices before buying

ESTABLISHED 1857

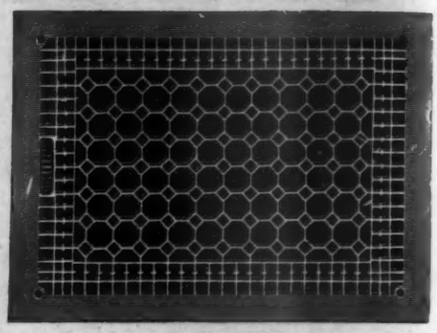
L. J. MUELLER FURNACE CO., 191 REED STREET, Milwaukee, Wis.

Ferrosteel Registers

The only house in the world manufacturing

CAST IRON FLOOR
SEMI STEEL FLOOR
WROUGHT STEEL FLOOR
CAST IRON SPECIAL SIDE WALL
WROUGHT STEEL SPECIAL SIDE WALL
FLAT OR CONVEX EXTRA SHALLOW SIDE WALLS
DEFLECTORS, PANCAKES, WAFERS

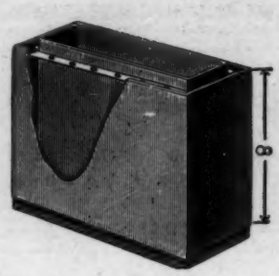
In all Designs and Finishes.
Mechanism Perfect.
Capacity Greatest.
Finish Unsurpassed.
No reputable line can undersell us.



Moorish Design

Ferrosteel Company, Cleveland, Ohio

The Michigan Safety Furnace Pipe Company



Corner Brooklyn and Abbott Sts.
DETROIT, MICHIGAN

Manufacturers of Safety Wall Pipe and Single Pipe and Fittings, in Both Tin and Galvanized Iron

Our customers deal with us direct and us only. We do not consult with nor take instructions from any commissioners, trust or corporation. Our agreements are only with our patrons and for their benefit.

Send for Our 1907 Catalogue **Our New Factory Insures You Prompt Delivery**

Don't Get Our Name Confused With Other Manufacturers

NOTICE!

We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and Continent. References furnished. Address

EXHIBIT & TRADING CO., Main Office, 72 Henry St., Liverpool, England

The Curtis Hardware Co., Paonia, Colo., write:

"Kindly take out our advertisement for man as we have about 25 applications."

Hold Fast Hook and Bolt Device
Patent Pending

Symonds Wall Register

Showing New Holdfast Hook and Bolt Device.

One of the styles we make to install above baseboard — installation not necessary until building is finished.

New Hook and Bolt device eliminates tin strap, rivets, cleats, wood, screws, wire and nails. No breaking of plaster. Conforms with strictest fire laws. Saves time and money. Do you catch on, the hook does.

SYMONDS MFG. CO., EAST ST. LOUIS ILLINOIS

We Make It!

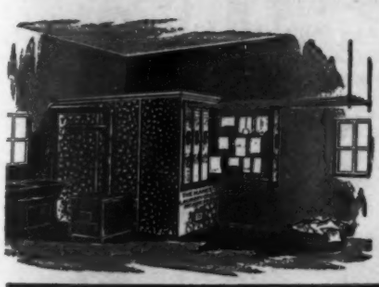
The BEST Air Drying Iron Enamel Made.

Try a 1-Dozen Case From Your Jobber

Nickel Plate Stove Polish Co., CHICAGO.

Large 10 oz. Can.

The "Manest" Family Clothes Dryer



A LAUNDRY STOVE AND DRYING CABINET COMBINED.

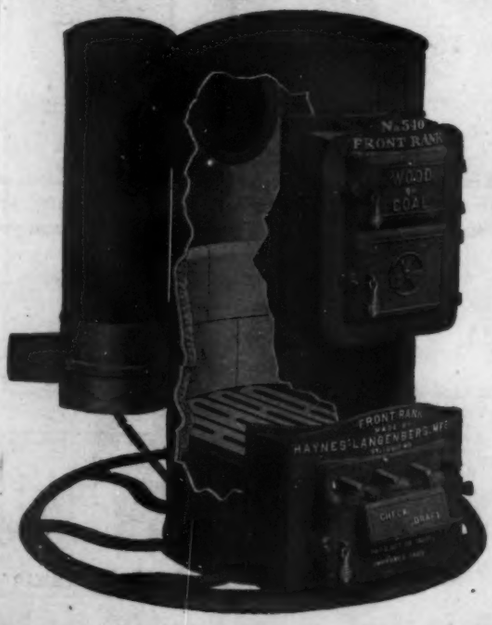
One Fire { Boils the Clothes / Dries " " / Heats the Irons

FOR RESIDENCES, APARTMENT HOUSES, INSTITUTIONS, HOTELS, ETC.

MANUFACTURED BY

THE MANNEN & ESTERLY CO.
CLEVELAND, OHIO

Front Rank Furnaces



Are growing more popular **every day.** The increased business necessitated a **New Factory.** We are building it. **33,000 ft.** of floor space, equipped with the **best** and **latest machinery.** Get in the **Band Wagon** and order the Front Rank Steel Furnace.

Haynes-Langenberg Mfg. Co.
ST. LOUIS, MO.

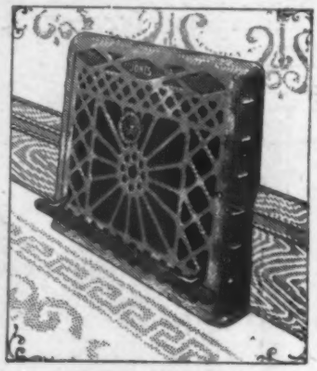
Get the Best

Don't try to satisfy your customer with a register that is "good enough." Give him full value for his money.

Improved Jones Registers

are better than the ordinary. They are the best money can buy.

ABSOLUTELY



FIREPROOF

The Improved Jones Registers

combine a Register, Register Border, Register Box, Ventilator and Deflector —can be installed as cheaply as the common floor register and the furnace will give better satisfaction with less fuel.

Write for printed matter and prices. They will interest you.

"Jones Registers"

Are Manufactured by

United States Register Co., Ltd.
BATTLE CREEK, MICH.

BRANCHES:
104 2nd Street, N., Minneapolis, Minn.
732 King St., West Toronto, Ont., Can.

DISTRIBUTORS:

Standard Metal Co. ..... Indianapolis, Ind.
F. Meyer & Bro ..... Peoria, Ill.
Lennox Furnace Co ..... Marshalltown, Iowa
The Stambaugh-Thompson Co., Youngstown, Ohio
Peck-Williamson Co ..... Cincinnati, Ohio
J. M. & L. A. Osborn Co ..... Cleveland, Ohio
May & Fiebeger ..... Akron, Ohio
Standard Bros., Ltd. ..... Detroit, Mich.
W. Brummeler's Sons ..... Grand Rapids, Mich.
Syracuse Stove Works. ..... Syracuse, N. Y
Arthur H. Merriam, New York, N. Y., 132 Pearl St
The McClure Co ..... Pittsburg, Pa.
Merrick-Anderson Co ..... Winnipeg, Man
Pirant & Co ..... Brussells, Belgium
V. Lowener ..... Copenhagen, Denmark

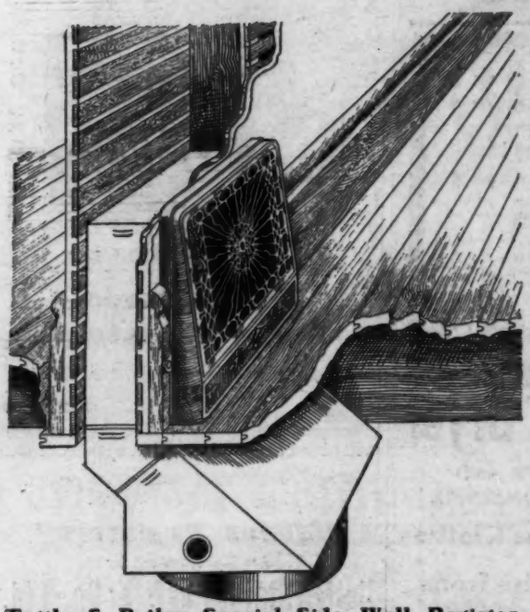
Theo. Becker, Geneseo, Illinois, writes: "You may leave out our want ad. for help, as we now have a full force. We are very thankful to you, as it was through your want columns that we were enabled to get good men, and we got them quick."

The Handy Furnace Pipe

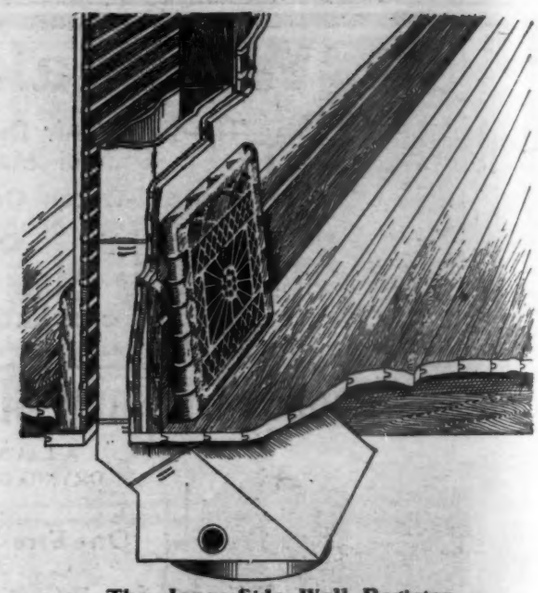
We Make Fittings for all the Leading Side Wall Registers

F. MEYER & BRO. CO.

PEORIA, ILL.

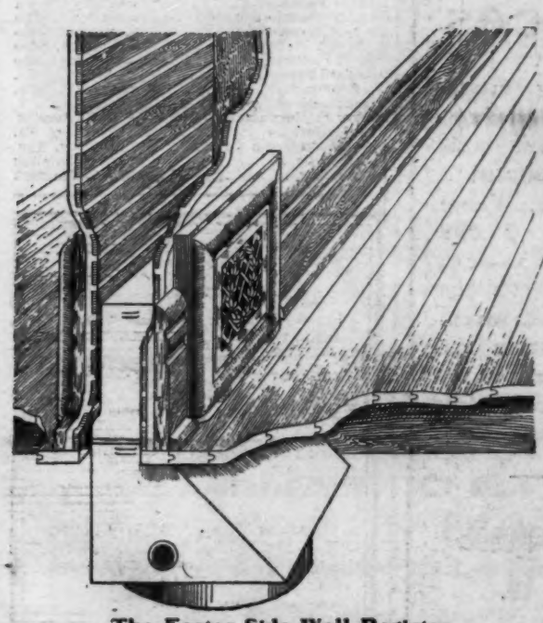


Tuttle & Bailey Special Side Wall Register With HANDY Fittings



The Jones Side Wall Register With HANDY Fittings

The HANDY Adjustable Joint can be adjusted from 6½ to 12 inches. By cutting off, any length under 6½ inches can be obtained



The Foster Side Wall Register

No. 2—Stack Head for Side Wall Register

Foster's Wall Registers

F. MEYER & BRO. CO.

Peoria, Ill.

Make Fittings both Single and Double for my entire line of

Wall Registers

No. 55

Foster's Special

C. H. FOSTER

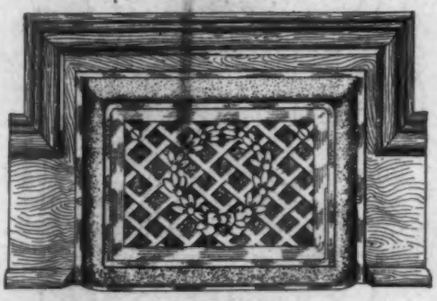
3403 Bell Ave.
ST. LOUIS, MO.

Maker of Greatest Variety Of

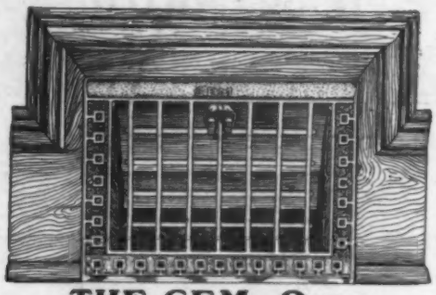
Wall Registers

The "Gem" Side Wall Register

For sale at a less price than any other Wall Register.
Has Large Air Flow.



THE FOSTER—Closed



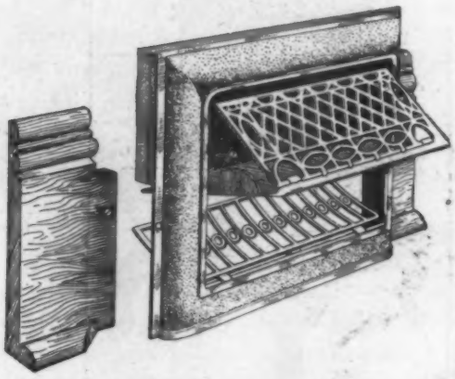
THE GEM—Open

Showing base molding returned around Register box. A workmanlike way to install Side Wall Registers.

THE FOSTER

The only Register that deflects any portion of warm air onto the floor.

THE FOSTER



Register removed, showing manner of applying "0" Series.
The Gem "0" Series apply in same manner.

ROUND OAK
STANDARD OF AMERICA

The following is taken
from a letter written to us
by a friend of
The Famous Round Oak
and is dated
February 3, 1907.
"On a recent trip to
Pomeroy, Wash.,
I saw a
Round Oak Stove
in use at
L. F. Koenig & Co.'s store
which has been in use
Twenty-Three Years
and is in
perfect shape
no repairs."
Good Old Round Oak!
Old—yet the newest—and still the
best of all.
Reliable—dependable
time-tried and tested.
Here is a heating stove you can offer
your trade that will
enthuse every customer who uses one.
If not sold in your town
can you get along another year
without it? Answer. Get the catalog.
It will be sent on request.

ESTATE OF
P. D. BECKWITH
(INCORPORATED)
FRED E. LEE, Pres. and Gen. Mgr.
DOWAGIAC, MICHIGAN.
Makers of Good Goods Only

"Mr. Johnson, I want to ax you sumfin."
"What is it, Tambo?"
"Mr. Bones did n't do a dance with his singin', did he?"
"No, Tambo! why did n't he?"
"Why, he done belieb his act such a warm proposition that he thinks he is a Round Oak Stove and can't clog."

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES AND ITS POSSESSIONS, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES INCLUDING CANADA, ONE YEAR, POSTAGE PAID, $4.00.
Address all Letters, Communications, and Remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.
THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, JUNE 1, 1907.

BETTER steel should go hand in hand with better prices.

WHEN a strike has only a trumped-up excuse it deserves to fail.

THE output of steel in 1880, according to Mr. Schwab, was a million tons. In twenty-five years it increased twenty-fold, and it is expected at least to double in the next ten years.

DURING the present month meetings of the national associations of hardware manufacturers, jobbers, and retailers will be held and THE AMERICAN ARTISAN wishes them all much joy and profit in their proceedings.

Stupidity of "Freak" Strikes.

IN THE city of Chicago during the present spring the public has been treated to the spectacle of a number of "freak" strikes which have excited general disgust among all classes of the community. At one time there were half a dozen such strikes in progress in the city, all of which reflected upon the common sense of those concerned. A sample of these strikes was seen when more than 2,500 men, engaged in the erection of a large industrial plant, laid down their tools simply because nobody could determine which of twelve labor unions had the right to cut the holes required in the foundation and walls of the building.

This tremendous "issue" is a fair sample of the causes which led to the spring epidemic of "freak" strikes in Chicago, and a fair sample of the causes of similar strikes that frequently occur in all parts of the country. The Chicago Tribune gives the following list of other labor "puzzles" that have been responsible for strikes this season:

Who should build a door in a house, a carpenter or a wood worker?

Is the setting of a screw in a belt shaft the work of a machinist or an elevator constructor?

Has a marble setter the right to spread cement on the back of a slab of marble?

If a nonunion waiter is carrying beer in a summer garden, should a union painter work in the place?

Is a man who runs a "donkey" engine an engineer or a fireman?

The strikes growing out of these truly ridiculous questions have involved large numbers of men, have delayed construction work, and have caused all the parties concerned much valuable time and no little money.

In the case of the dispute about the building of a door, several hundred men were affected and the fight grew so bitter that an official of the woodworkers' union, it is said, was compelled to seek police protection against attacks by members of the rival union. The strike over the setting of a screw in a belt shaft involved only two men and a boy, but the contractors for a great new bank building found it impossible to install any elevator machinery until the dispute was settled. In this case it is also said that two sets of employers arrayed themselves against one another and urged the respective unions concerned to "stand pat."

Such disputes as this constitute a decided menace to the well-being of any industrial community. They alienate from all concerned that sympathy of the public without which few strikes can succeed. They simply disgust the public with the ridiculous demands of labor on the one hand, or, it may be, with the uncompromising attitude of the employers on the other. They arouse public sentiment against the strike, which is the most powerful weapon in the hands of organized labor, and should be resorted to, if at all, only in the same spirit in which all deadly weapons should be used—only in cases of absolute necessity, when all other methods of redress or self-protection fail.

"Freak" strikes, such as are typified by the Chicago disturbances recently recorded, are the embodied essence of stupidity. The general public can only hope that they should fail of their object, as they deserve to fail, because they are stupid.

Our Iron and Steel Exports.

THE value of the iron and steel exports from the United States in the fiscal year which ends with June 30 will aggregate approximately 175 million dollars, against 57 millions a decade ago and 16 millions in 1887.

This rapid growth in the exportation of iron and steel manufactures is especially interesting, in view of the fact that finished manufactures form a larger percentage of the grand total in this group than is the case in any other of the great groups of articles classed as manufactures. In copper exportations, the group of second rank, a large proportion of the value occurs in a class which has undergone but a slight process of manufacture, namely, copper in ingots, bars, and plates; and this is also true of wood manufactures, of which lumber, sawed timber, and shooks form a large percentage of the total exports. In the case of iron and steel, however, finished articles form a large share of the rapidly growing total. Of the 132 million dollars' worth of iron and steel manufactures exported in the nine months ending with March, 1907, nearly 7 million dollars' worth consisted of locomotives; nearly 6 millions, sewing machines; 4½ millions, typewriters;

over 6 millions, electrical machinery; nearly 7 millions, metal-working machinery; over 17 millions, miscellaneous machinery not separately specified; nearly 11 millions, builder's hardware, including locks, hinges, saws, tools, etc.; more than 6 millions, steel rails; and about 5 millions, structural iron and steel.

The high grade manufactures of iron and steel exported from the United States find a wide distribution and are accepted in every part of the world. Of the nearly 11 million dollars' worth of builders' hardware exported in the nine months ending with March last, Canada, the United Kingdom, and Australia were the largest purchasers, the total to Canada being nearly 2 million dollars, that to the United Kingdom 1½ millions, and to Australia 1¼ millions; while three-fourths of a million dollars' worth went to Germany and more than half a million dollars' worth to Argentina. Of the nearly 7 million dollars' worth of metal-working machinery exported during the nine months under consideration, Europe was the chief purchaser, the value sent to Germany having been 1¾ million dollars; to the United Kingdom, 1½ millions; to Belgium and Italy, each about three-fourths of a million dollars, and to other European countries about one-half million dollars.

The whole world buys from us but not in quantities commensurate with our actual importance in the world of trade. By and bye we shall wake up and come into our own as an exporting people.

Trade Schools in Austria.

In the important matter of encouraging that form of higher education which includes industrial training, Austria has taken many steps in advance and its trade schools justly enjoy a good reputation among other nations, even serving as models for similar institutions elsewhere.

For thirty-five years the comprehensive system of industrial education which now prevails in Austria has been in course of evolution, the most important development having occurred since 1897. To-day the Austrian government deems it imperative to employ the most efficient means of industrial education in order to maintain competition with foreign countries, in view of the industrial progress of the world.

There are seven classes of technical schools in Austria, including schools which give complete instruction in a certain trade; schools in which tradesmen may obtain further instruction in their special trade, and primary schools giving preparatory instruction in technical matters. It is reported that after these thirty-five years of experience in industrial education, the Austrian government finds that the best results are attained by those schools which require as one of the terms of admission some years' previous practice in workshops, such pupils forming the most promising material and proving the more eager students.

The Austrian system includes scientific institutions of industrial education with higher aims, such as the Technological Trade Museum of Vienna, which has a special metal-trade department. Such large state institutions in Vienna had an attendance in 1906 of 2,435 pupils.

Then there are twenty-one state trade schools in Austria, established for the purpose of furnishing general technical education in the trades and industrial arts. Would-be pupils in these must have passed a period of eight years in the public schools and the total attendance at present in the Austrian schools of this type is 12,566 pupils.

There are next special schools for the building trades—a comparatively new departure and thus far eminently successful, the two institutions of this kind already open having an attendance of 609 pupils, these being largely journeymen carpenters seeking further instruction in their trade.

Special schools for specific trades have also been established with a view to meeting the particular needs of their respective localities. Of this type there exist at the present time 82 state schools, attended by 10,382 pupils, and 75 schools subsidized by the state.

Then there are six state schools and five subsidized schools for handicraftsmen and four special schools for industrial drawing.

But by far the greater number of trade schools in Austria are general schools for instruction in the trades and in mechanical drawing, including institutions where the course is annexed to the public school. These number altogether 1,000 schools and are attended by 130,000 pupils. They are subsidized by the government and for the most part supported by the municipalities.

As a specific example of the methods employed in the Austrian schools, we may cite the case of the Technological Trade Museum of Vienna. This is one of the most important institutions for industrial education in Austria. The departments comprise those for instruction in the chemical trades, including dyeing, food chemistry and analysis, and for instruction in the metal and electrotechnical trades, etc.

The metal-trade department consists of a lower and a higher grade. All pupils seeking admission must have reached the age of fourteen years, passed the examination of the public school, and be considered physically fit. Such pupils are accepted on two months' probation. The instruction covers matters of general education and all things treated of in the metal industry—i. e., language, mathematics (arithmetic, geometry, algebra, trigonometry, etc.), free-hand drawing, physics, mechanics, mechanical technology of metals, general chemistry (organic and inorganic), trade hygiene, and general practice in workshops. The course for the lower grade is concluded in four years, that of the higher grade for more advanced study necessitating attendance for an additional two years. The formal entrance fee is 4 kronen (krone equals 20.3 cents), the cost for one year for Austrian youths being 240 kronen, and for those of other nationality 340 kronen.

In instances where the pupils are unable to pay, in the metal-trade department and others, arrangements are made for partial or entire exemption from all expenses and there are numerous scholarships awarded throughout the empire.

In view of the gradual awakening of interest in the United States in the matter of technical education, the methods and experience of the Austrian government are full of interest for investigators of the subject.

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

In a recent issue of Selling Magazine, the clever New York exponent of "higher efficiency in marketing machinery, tools, equipment and supplies," I find an article by Mr. James H. Collins on the subject, "How to Organize a 'Graveyard.'" At first sight this does not seem a very promising subject for handling in a live magazine, but there is nothing funereal or even moribund about Mr. Collins' matter. The graveyard to which he refers is the kind of graveyard maintained by the great daily newspapers—not a private burial-place for beings unfortunate enough to have had a personal argument with the editor, but a filing-place for clippings of all kinds that may be found useful at some time or other and are carefully put away for future reference. Thus, when anybody of local, state or national importance dies, or marries, or breaks a bank, or commits suicide, or elopes with another man's wife, or is indicted by a grand jury, or is elected to congress, or becomes President, a trip to the newspaper graveyard will yield clippings sufficient to furnish columns of "copy" on the subject. Mr. Collins urges the adoption of a similar method by business houses, manufacturers, and others for filing away trade literature and clippings that may be needed at some future time.

Most careful hardware dealers have some system of their own for preserving business literature. The important catalogues from which they buy goods from time to time are or should be carefully preserved, each in its proper place, ready for reference at a moment's notice. But the columns of a representative trade journal, like THE AMERICAN ARTISAN for instance, contain in the course of a year innumerable articles on technical subjects and items of trade information which many a reader would like to preserve but fails to do so for lack of a system of filing such matter.

In his article on organizing a "graveyard," Mr. Collins advocates the use of a system of envelopes for filing trade journal clippings, each envelope marked with the name of some particular subject in which the owner is interested. He would have such a "graveyard" in every business establishment and believes it would be found a valuable adjunct to the business.

I fully agree with Mr. Collins as to the advisability of preserving for reference much of the matter that appears in the columns of a journal like this—matter prepared with considerable expenditure of time and effort and study for the benefit of the reader, and oftentimes cast aside when the freshness of the journal has worn off or the succeeding issue arrives. Mr. Collins's idea is well worth consideration.

Methods of preserving clippings for ready reference will suggest themselves to anyone who gives the subject more than a moment's thought. Any "graveyard" for filing them away is preferable to the waste basket.

* * *

The fact that it pays to advertise is not of modern discovery nor is the knowledge of the fact by any means confined to the United States, though we may justly claim to lead the world in advertising. Across the Atlantic they can give us one or two pointers in the game. For an instance we are gravely pointed to an inscription on a tombstone in a churchyard at Greenwich, England, which reads as follows:

Here lies
CLARINDA
Wife of Joseph Grant,
Who Keeps a Chemist Shop at
No. 21 Berkeley Road, Greenwich,
And deals only in the
Purest Drugs.

The nearest approach to this that I know of on this side of the big water was the act of the noted Montreal character, Joe Beef, of "canteen" fame, who hired a brass band to head his wife's funeral procession and instructed the leader to play "The Girl I Left Behind Me," on the return from the grave.

* * *

In several respects the labor conditions in China are the exact reverse of those in the United States. In this country the commonest laborer receives, not merely a living wage, but one that compares favorably with the pay of many European mechanics, while the skilled American mechanic receives a wage that often exceeds the pay of those in the same employ who are engaged in clerical work.

In the Chinese Empire, on the contrary, the pay of the clerk is usually more than double that of the mechanic or artisan, while all classes of labor are reimbursed at a rate that appears ridiculous when compared with the figures that prevail in the United States.

Harry L. Paddock, our consul at Amoy, in a report on the scale of wages paid in China, gives the following figures to represent the daily returns in United States money for labor done by various classes of Chinamen: Laborer, 10 cents; mason, 15 cents; artisan, 10 cents to 20 cents, and clerk, 40 cents to 50 cents a day.

When you feel down in the mouth, my dear wage-earning friend, and can hear nothing in fancy but the hooting of the owl, the croaking of the raven and other doleful sounds, just brace up for a moment and consider how far superior your lot in life is to that of the Chinese wage worker. If human happiness is all a matter of comparative fate, as many people profess to believe, then should the American wage-earner be the happiest human creature on earth.

* * *

From a recent issue of the Crookston, Minn., Journal I learn that "For a few moments last Saturday morning the hardware store of Brown Duckstad of Fertile was a good representation of an exploding arsenal. In throwing a lot of waste paper in the stove a box of fifty 32-calibre rifle cartridges got mixed in and the reports that followed drove Brown, his clerks and customers out in a hurry."

Now I happen to know that Brother Duckstad has a large and well-ordered store, and I can't for the life of me imagine how a box of rifle cartridges came to be filed away in the waste paper basket. Evidently the store system went wrong somewhere.

News Siftings

The Sheridan Stove Company of Quincy, Illinois, are making improvements to their plant to cost about $10,000.

The American Foundrymen's Association, which held its annual convention in Philadelphia last week, decided to meet next year at Toronto, Canada.

The Frazer Stove Company, of Indianapolis, Indiana, through its president, L. M. Frazer, and secretary, John Keefe, has increased the capital stock from $25,000 to $50,000.

At the recent meeting of the stockholders of the Keeley Stove Company, of Columbia, Pennsylvania, the following directors and officers were elected for the ensuing year: President, D. H. Detwiler; secretary, J. E. Shomier; directors, H. M. North, Sr., John Westerman, J. H. Herr, William Morris, Horace Detwiler, M. S. Shuman, W. L. Bucher and D. C. Denney.

Mr. Harry E. Borzell, manager for E. F. Kurtz, stoves, ranges and heaters, 41 and 43 N. Second street, Philadelphia, called at THE AMERICAN ARTISAN office May 24 to report progress on an 8,000-mile tour, embracing the Grand Canyon of Arizona, southern California, the Pacific coast, and the Canadian Rockies. He was enthusiastic over the delights of the trip, which was under the auspices of the Mystic Shrine.

The Born Steel Range Company, of Cleveland, Ohio, announce that Mr. Chas. W. Graff has been appointed to fill the late Mr. Arthur Corson's place as traveling salesman. They say in a letter to the trade: "Mr. Graff has been with us so many years that he can be said to have grown up in our business. To many of our customers he needs no introduction, and to the others we will simply say that he knows the stove business—the mechanical as well as the selling end of it—and will take care of you right."

ENTERTAINED BY ABRAM COX STOVE CO.

The Abram Cox Stove Co., of Philadelphia, gave a shad dinner on Tuesday evening, May 28th, at Fall's Hotel, Westville, New Jersey, to their salesmen and to the salesmen of F. M. Borden & Bro. The following gentlemen were present: C. S. Prizer, A. J. Wright, J. G. Waters, Homer Sherwood, Thos. L. Huggard, J. F. Hart, and E. E. Barto, of Abram Cox Stove Co.; C. B. Smyth, M. H. Smith, W. F. Habicht, W. H. Borden, W. P. McConnor, and W. W. Farr, of F. M. Borden & Bro.

Speeches were made by C. S. Prizer, A. J. Wright, C. B. Smyth, M. H. Smith, W. F. Habicht and Thos. L. Huggard.

THE SUMMIT STOVE CO.

The Summit Stove Company has been incorporated at La Crosse, Wisconsin, to succeed the Summit Foundry Company of that city. The La Crosse Chronicle says of the deal:

"With five of the leading capitalists of La Crosse as the principal stockholders the big north side foundry may hereafter be regarded as a purely La Crosse institution. The incorporators of the company are L. C. Colman, H. L. Colman, E. L. Colman, F. P. Hixon and J. M. Hixon. The capital stock is placed at $95,000, and the above named incorporators will hold the controlling interest in the factory.

"J. F. Quay, treasurer and general manager of the Summit Foundry company, said that the new corporation had bought out absolutely the La Crosse branch of the company, and that hereafter it would be conducted as an independent plant. The stove foundry was established here about three years ago as a branch of the main plant at Geneva, New York, the corporation doing business under the firm name of the Summit Foundry Company. The officers of this corporation were: William Reid, president; Roger Hogan, vice-president; George H. Gillette, secretary; Joseph F. Quay, treasurer."

W. G. HENRY'S CRYSTAL WEDDING.

The fifteenth wedding anniversary of President W. G. Henry of the National Association of Stove Manufacturers occurs to-day, June 1, and the occasion will be handsomely celebrated in the Chicago office of the Detroit Stove Works by a presentation to the popular head of the Chicago house by the office staff and the traveling men. They will celebrate this crystal anniversary of the auspicious event by the presentation to Mr. Henry of a handsome mahogany writing desk and library lamp. The desk is a reproduction of a Colonial antique, made, it is said, from the handsomest crotch mahogany ever put into a piece of furniture, and was especially made for Mr. Henry at the behest of his Chicago associates. It is regarded as one of the finest pieces of furniture that ever left a Chicago factory. The writing lamp which accompanies it is also a work of art.

THE AMERICAN ARTISAN joins Mr. Henry's associates in congratulations upon his crystal anniversary, with the most sincere wishes that both he and Mrs. Henry may continue to enjoy life sufficiently to look forward with satisfaction through the vista of the years to an anniversary of golden hue.

THE MAIL-ORDER STEEL RANGE.

A farmer in looking over one of the mail-order concern's catalogues not long since, noticed that the price on nails was very low, and, having use for some, his wife also urged him to get her a "steel range." So he sent an order for one keg of nails and the range, says the Home Trade Journal of Peoria, Ill. We are reliably informed that the range is now in the old scrap iron pile, and that the mail order house made two dollars on the range for every cent they lost on the nails.

"The railroad companies lately have been considerably annoyed by claims made for breakage of stoves and ranges, shipped from the big mail order houses. An investigation made shows that many of these job-lot concerns send out stoves so slighted in the making or made of such poor iron that the least jar breaks them. Cheapest cast iron is used, where good steel should be and the castings are made so light that the stoves are of little value.

When buying goods remember that every kind and

class of goods has a real value, and this is based upon the cost of the raw materials, the price of the labor in producing it and the cost of marketing. Whenever there are big bargains offered in any line be careful and see that you are not getting an inferior article. When good steel ranges are worth $40 to $50 it would be a foolish farmer who would think he was getting the best for $27.50. It is an actual fact that it costs two and one-half times as much to build a good steel range as it costs to mold one of those mail order house ranges.

OBITUARY.

John A Walker.

John A. Walker, vice-president and treasurer of the Joseph Dixon Crucible Company, Jersey City, New Jersey, died at his residence in that city, May 23d, after an illness of about a month which was not ex-

John A. Walker.

pected to result seriously, Mr. Walker having gone home on April 24th for what was supposed to be a few days' rest. Complications, however, set in and death resulted.

Mr. Walker was born in New York City, September 22, 1837. He was educated in the Brooklyn schools and received his early business training in the city of New York. After serving with credit in the Civil War Mr. Walker became connected with the firm of Joseph Dixon & Company in 1867. Only a few weeks ago he celebrated the fortieth anniversary of his connection with the company, when he was the recipient of many congratulations from his great circle of friends.

In 1868, when the firm was incorporated as the Joseph Dixon Crucible Company, Mr. Walker became secretary and entered actively upon the work of making known to the industrial world the many possible uses of graphite. In 1891 he was elected vice-president and treasurer and held these two offices continuously until his death, the general management of the company being also largely in his care.

Born of Scottish parents, Mr. Walker possessed the traits that have brought success to Scotsmen in all parts of the world. He was a good man in every sense of the term and enjoyed the unbounded respect and admiration of all with whom he came in contact, whether in business life or in the social and charitable activities which he loved so well. He held several important public positions in his home city, discharging the duties of all of them with the greatest credit to himself and satisfaction to his fellow-citizens. He was an untiring worker and his activities outside of the important duties devolving upon him in connection with the Joseph Dixon Crucible Company were remarkable.

As an officer of insurance and financial companies and commercial bodies in New York and Jersey City, and of many social organizations, his business acumen and experience were always at the service of his associates, who honored him as a most estimable man of affairs and grew to love him for his attractive personality and moral worth. He leaves a widow who, with his business associates, will have the sincerest sympathy of all Mr. Walker's friends and they are numbered by the thousand, being found in all parts of the United States and in many foreign cities.

Albert C. Vedder.

Albert C. Vedder, a retired member of the wholesale hardware firm of Vedder & Harris of Manhattan, died recently at his residence, 78 St. Mark's avenue, South Brooklyn, New York. He was born in Glenville, Schenectady county, New York, and was 81 years old. For more than fifty years he was a member of Anglo-Saxon lodge of Freemasons. He settled in Brooklyn fifty-six years ago and six years later married Fanny Howe Blake, who survives him with one daughter, Mrs. Robert L. Kliem. He retired from active business life about twelve years ago.

John Shook.

John Shook of Warren, Ohio, manager of the Warren Steel Range Company, died recently at his residence in that city. In addition to managing the Warren Steel & Range Company, Mr. Shook was also connected with the Warren Hardware Company. He was a genial, whole-souled man, and his loss is mourned by a large circle of friends, associates and acquaintances.

McClellan Hartley.

McClellan Hartley, junior member of the hardware firm of W. H. Hartley & Sons, Cambridge, Ohio, died recently of pneumonia and heart failure after a brief illness. Mr. Hartley, who was widely known in his section of Ohio as a clever business man and a worthy citizen, was born September 14, 1860, and was the son of Wm. H. Hartley, senior member of the firm.

Joseph H. Berry.

Joseph H. Berry, capitalist and head of Berry Bros., Ltd., of Detroit, Mich., the largest varnish manufacturing company in the world, died May 22 at his Grosse Point residence, near Detroit, after an illness of nearly two months.

Mr. Berry was interested in many enterprises and industries. His fortune was rated in the millions.

Should the Ton Be Standardized?

The letters published in the May 25 issue of THE AMERICAN ARTISAN, giving the views of a number of representative firms in the metal trade regarding the question whether the ton should be standardized and made uniform in all the states of the Union, at a weight of either 2,000 pounds or 2,240 pounds, were evidently read with much interest.

The curious diversity of the opinions expressed, varying from the idea that the English standard weight of 2,240 pounds should be adopted in this country to the contrary opinion that the short ton of 2,000 pounds is preferable, has been somewhat of an eye-opener to those who could see no reason for raising the question and believed it to be of little moment.

A second batch of interesting letters upon the subject is presented herewith and it will be seen that a similar variety of views prevails among the writers.

Says 2,000 Lbs. Should Be Standard.

To THE AMERICAN ARTISAN:

We note the statement that the standard ton throughout the United States on all metal goods in our line is 2,000 lbs. The 2,240 lbs. is the old English standard, as you are aware, tons, cwt. qrs., lbs., and on all material imported from English territory 2,240 lbs. in their standard. We however, consider 2,000 lbs., which is universal in this country, should be standard weight for the United States and her possessions.

We only know of one difference in this country and that is in the State of Pennsylvania. In anthracite and bituminous coal the legislature some years ago fixed the standard weight at 2,240 lbs. and there was quite a contest at the last session of the legislature, which has just adjourned, to make the standard 2,000 lbs. and judging from the vote and influence used we have not the least doubt that the next session will adopt 2,000 lbs. as a standard.

Yours truly,
GUMMEY, MCFARLAND & CO.

Philadelphia, May 20, 1907.

Says a Ton Means 2,240 Lbs.

To THE AMERICAN ARTISAN:

Usually metals are sold by the gross ton of 2,240 lbs., excepting nickel and aluminum, and even in that when gross tons are shipped there is not much complaint made. Our impression is that when a ton is mentioned it means 2,240 pounds.

Yours truly,
SYRACUSE SMELTING WORKS,
Per L. Sapery.

New York, May 20th, 1907.

Prefers the Long Ton.

To THE AMERICAN ARTISAN:

In reference to the difference in the weights representing a short and long ton of 2,000 and 2,240 pounds respectively, we are well aware of the manner in which various articles are sold in this direction, and are therefore not troubled in reference to the same.

The trade in the various lines are well posted, we think, with the weight in the various commodities that are sold—represented by these two weights. All classes of iron goods are listed 2,240 pounds to the ton. Oats, hay, corn and such commodities are based on 2,000 pounds or a short ton.

Our opinion is that 2,240 pounds on everything would be much better, as it is more generally understood and more largely used.

We have no trouble in buying or selling metals, as we are well acquainted with the two weights represented.

Yours truly,
E. L. PARKER CO.

Baltimore, May 20, 1907.

Use "Gross Tons" with Large Orders.

To THE AMERICAN ARTISAN:

Regarding the question of any difficulty in buying or selling steel according to the term of "one ton" we beg to state that in the United States it is universally understood that when a firm orders steel by the ton they expect to receive 2,000 lbs. and we always understand it that way. However, in nearly all cases where large quantities are involved, we invariably make it a habit to state "gross tons" and we put the weight down in brackets (2,240 lbs.)

On account of this great care which we have been taking with this matter, always being very specific, we have never experienced any difficulty in that respect.

Yours very truly,
HERMANN BOKER & CO.

New York, May 20, 1907.

Prefers the Simpler Short Ton.

To THE AMERICAN ARTISAN:

We have experienced no trouble in buying or selling metals based on the short ton. We think it is universally understood in the metal business that 2,000 pounds is considered a ton, and not 2,240. We much prefer buying and selling on the 2,000-lb. base; it is very much simpler and easier for both buyer and seller.

Most respectfully yours,
LYON, CONKLIN & CO., INC.

Baltimore, May 20, 1907.

Differing Tons for Different Metals.

To THE AMERICAN ARTISAN:

We have no difficulty in buying or selling metals due to the various weights of the ton, for the reason that it is thoroughly understood in the metal trade that all imported articles like pig tin and antimony are sold on the English ton of 2,240 pounds, while other articles not generally imported, but of home production, such as copper, lead and spelter, are sold on the American ton of 2,000 pounds.

Yours very truly,
CHARLES S. TRENCH & CO.

New York, May 20, 1907.

Likes the Gross and Net Tons.

To THE AMERICAN ARTISAN:

We believe the standard ton as used in the United States is much more satisfactory to us than that used in English trade, i. e. the gross ton (2,240 lbs.) for raw and semi-raw materials and the net ton (2,000 lbs.) for all finished material.

Yours truly,
THE YOUNGSTOWN SHEET & TUBE CO.,
J. A. Campbell, President.

Youngstown, Ohio, May 21, 1907.

Uniformity a Decided Advantage.

To THE AMERICAN ARTISAN:

With reference to having a uniform ton established, while we cannot say that we have experienced any difficulty on account of using 2,000 pounds in some cases and 2,240 pounds in others, we think it would be a decided advantage if a uniform standard of the ton could be had. In our business we pay all our workmen for tons of 2,240 pounds and our sales are all based on tons of 2,000 pounds each. We think it has been generally accepted by the hardware trade for many years to specify tons of 2,000 pounds, while with the steel makers, pig iron makers, and we might say with all

the makers of the heavier and cruder metals, 2,240 pounds always applies.

We would be very glad to lend any help we can if this matter can be taken up and a uniform standard established.

Yours very truly,
McKeesport Tin Plate Co.,
E. R. Crawford, Pres't.

McKeesport, Pa., May 20, 1907.

Derives Benefit from Two Weights.

To The American Artisan:

Relative to variation in weight of ton, the standardization of the ton would not help us in any way. In fact, we would rather not have it standardized, as we derive more or less benefit from the fact that two weights are used. Have never experienced any difficulty in buying or selling on account of the varying weights.

Yours very truly,
The Colorado Fuel & Iron Co.,
J. B. McKennan, Manager.

Minnequa Works, Pueblo, Colo., May 20, 1907.

Would Favor Standardization.

To The American Artisan:

We have no difficulty in buying or selling metals, due to the varying pounds to the ton. We would suggest, however, that if there are any differences in the number of pounds per ton in the different sections of the country, that a uniform standard should be adopted.

Yours very truly,
St. Paul Roofing, Cornice & Ornament Co.

St. Paul, May 20, 1907.

New Metal, Short Ton; Scrap Iron, Long Ton.

To The American Artisan:

We beg to say that we buy and sell on a basis of 2,000 lbs. per ton for metal, but in disposing of our scrap iron sell same at the rate of 2,240 lbs. per ton. We have never experienced any difficulty in buying or selling metal due to the varying weights of the metal.

Yours truly,
The Kanneberg Roofing & Ceiling Co.,
By J. E. Milner.

Canton, Ohio, May 20, 1907.

Finds the Short Ton Satisfactory.

To The American Artisan:

The ton of 2,000 pounds has always been satisfactory to us, and we know of no advantage that would result from changing.

Respectfully,
The Bodine Roofing Co.,
Charles B. Jameson, Pres.

Mansfield, O., May 18, 1907.

Has Experienced No Difficulty.

To The American Artisan:

We would state that we buy so few metals that we have never experienced any difficulty at all in reference to the English and U. S. ton.

Yours very truly,
The J. M. & L. A. Osborn Co.

Cleveland, May 22, 1907.

Raw Materials Sold by Gross Ton.

To The American Artisan:

We would state that all such materials as pig iron, steel billets, sheet bars, steel rods and any other iron or steel products, such as are known as semi-finish products, are sold by the gross ton, 2,240 lbs.

Finished iron and steel products are sold by the net ton, 2,000 lbs., or by the cwt., as the case may be.

It is usually allowed that in the conversion between the raw material to the finished, there is a loss in the heating and rolling and scrap which will take up the difference between the net and gross ton.

We have never experienced any difficulty by reason of the difference varying in weight between a gross ton and a net ton, for the reason that all consumers of this material know the rules on which the various products are sold, and hence they have to adhere to it.

Yours truly,
Canonsburg Steel & Iron Works,
By John M. Watson, Vice-President.

Canonsburg, Pa., May 21, 1907.

Would Prefer a 2,000-lb Ton.

To The American Artisan:

With regard to the subject of a standard ton as applying to purchase and sale of metal, in this connection we have not had very large experience. We can appreciate, however, that there is considerable confusion from the fact that there is no accepted standard and that it is always necessary to specify 2,000 or 2,240 lbs. We would think that the adoption of a 2,000-lb. ton would be much more satisfactory.

Yours very truly,
H. F. Watson Company,
By C. V. Sturdevant.

Erie, Pa., May 22, 1907.

Tons Defined by Custom.

To The American Artisan:

With reference to the uniform standardization of the ton in this country, we would state that in our business little or no confusion arises from the use of both the net ton and the gross ton, as custom has already clearly defined the usages in the various lines we handle.

Very truly yours,
N. & G. Taylor Company.
Per J. C.

Philadelphia, May 22, 1907.

Would Adopt the English Standard.

To The American Artisan:

On account of our business relations with England and the importance of the English trade, we would suggest the uniform standardization of the ton by the adoption of the English standard weight of 2,240 pounds avoirdupois.

We have at times experienced some difficulty in the metal trade due to the varying weights of the ton, and would suggest that the concerted opinion and support of the technical schools in the United States should be secured in favor of the uniform ton. Then when their many students get into employment they will help to bring about the adoption of the new standard.

Auld & Conger,
By F. H. Conger.

Cleveland, Ohio, May 20, 1907.

Favors a Uniform Ton of 2,000 Lbs.

To The American Artisan:

We would favor a net ton of 2,000 lbs. to govern in all instances.

Yours truly,
The Niles Iron & Steel Co.,
W. A. Thomas. Pres. and Treas.

Niles, Ohio, May 20, 1907.

Prefers the Gross Ton.

To The American Artisan:

We are strongly in favor of standardizing the ton in the metal trade. We have quite a little complication at times in our own particular line, and while we buy all raw material on gross ton basis, our finished production is sold in both ways. Some people buy on net ton basis and others on gross ton. Inasmuch as the gross ton of 2,240 lbs. predominates, we think that should be made the basis and the net ton eliminated. Believe us,

Very truly yours,
Phillips Sheet & Tin Plate Co.
E. T. Weir, Sec'y and Gen'l Mgr.

Clarksburg, W. Va., May 20, 1907.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 42 to 47 inclusive.

J. H. Price has opened a hardware store at Florence, Nebraska.

V. J. Voboril has engaged in the hardware business in Prague, Nebraska.

Ole Nelson has bought the hardware business of R. Esty at Lashara, Nebraska.

Frank J. West has bought the hardware business of R. V. Churchill, Neola, Iowa.

J. H. Current has bought the hardware business of John Funke at Wilcox, Nebraska.

C. A. Beachler of Gilead, Nebraska, has sold his hardware business to L. H. Swasa.

G. W. Miller has sold his hardware business in Bristow, Iowa, to C. R. Thompson.

E. F. De Lay of Cameron, Missouri, has sold his hardware store to G. C. Whistler.

N. Edberg has bought the hardware business of J. O. Walker & Co. at Ong, Nebraska.

John W. Flatt has bought the hardware business of F. A. Todd at Avard, Oklahoma.

F. C. Jewell has bought the hardware stock of Dillingham & Jewell, Braman, Oklahoma.

E. D. Currier has sold his hardware business at Albion, Nebraska, to Bowder & Bowder.

The hardware business of Clark Bros., Mutual, Oklahoma, has been bought by T. Thomas.

Fulton, Brady & Co. have sold their hardware business in Fairfield, Iowa, to P. H. Fisher.

Buck & Greene of St. Albans, Vermont, have formed a partnership to retail hardware, etc.

Smith & Chickudona have bought the hardware business of U. S. Kelsey, at Kimball, Kansas.

Driggs & Jones have purchased the hardware business of Thomas & Foster, in Clinton, Missouri.

Charles Kavanagh has succeeded Murphy & Kavanagh, retail hardware, Crab Orchard, Nebraska.

Weaver & Coleman have succeeded to the hardware business of W. W. Weaver at Norfolk, Nebraska.

An addition is being built to the Peter Grallman hardware store on Galena street, Freeport, Illinois.

Burwell & Beatty have succeeded to the hardware business of R. N. Atkinson at Ainsworth, Nebraska.

The hardware business of Ed. H. Kelly & Co., Frankfort, Indiana, has been bought by Bert Wills.

E. A. Steele of Parker, Kansas, has been succeeded in the hardware business by Steele Hardware Company.

The Builders' Hardware & Supply Company has been organized at Scranton, Pennsylvania; capital, $10,000.

The Duncan Baker Hardware Company of Marion, Illinois, has increased its capital stock from $30,000 to $50,000.

F. C. Wilson has bought a one-third interest in the hardware business of Empfield & Leonard at Anselmo, Nebraska, and the firm name has been changed to Empfield, Leonard & Co.

The Hill Tool Company of Anderson, Indiana, has been dissolved. Hugh Hill was president and Isaac C. Ash secretary-treasurer.

C. F. Stecher of Camp Point, Illinois, celebrated the tenth anniversary of his starting in business with an anniversary sale, May 18th.

The Louisville Varnish Company of Louisville, Kentucky, will erect a new building to cost $30,000 as an addition to its present plant.

The Shenandoah Steel & Wire Co. of Buffalo, New York, has started making wire by a new process at its new plant south of that city.

The new hardware firm of Bourland & Moore, Evansville, Indiana, is now fully established in convenient quarters at 518 Main street.

W. A. Martin of Denver, Colorado, has joined the force of the Cottrell Hardware Company of Quincy, Illinois, as a traveling representative.

August F. Metzler, hardware dealer of Mackinaw, Illinois, will erect a two-story brick building, 42½x68 feet, and add a line of implements.

The W. R. Hilliard Hardware Company of Baylor, Texas, recently filed an amendment to its charter increasing its capital stock from $20,000 to $40,000.

J. W. McGregor has withdrawn from the McGregor-Farr Hardware Company of Burlingame, Kansas, his interest having been acquired by F. W. Miner.

John McNamara of Orangeburg, South Carolina, for some years manager for J. W. Smoak of that city, will engage in the hardware business on his own account.

Demonstrations of refrigerators were conducted during the month of May by the Bunting-Stone Hardware Company, 804-806 Walnut street, Kansas City, Missouri.

German razors, cutlery, etc., are being shipped to Sheffield and thence imported into Canada as Sheffield goods, thus receiving the benefit of the British preferential tariff.

The Union Star Hardware Co. of Union Star, Missouri, filed a petition in voluntary bankruptcy in the federal court. The liabilities are placed at $1,800 and the assets considerably less.

The American Steel & Wire Co. will build a one-story brick addition, 50x200 feet, to its Anderson, Indiana, plant, to be used temporarily as a storeroom for barbed and galvanized wire.

Mr. J. E. Shrader, principal of the high school at Richwood, Ohio, recently resigned to devote his entire attention to the hardware business in the store of Ross & Shrader of that town.

The hardware dealers of Omaha tendered a banquet at the Grand Hotel in that city on Tuesday evening, May 14th, to one of their number, Mr. T. N. Petersen, on the eve of his departure for a trip to Europe.

The Ironton Tool Handle Company of Ironton, Ohio, which was recently organized, has started op-

erations in a plant located just above the N. & W. tracks between Third and Fourth streets, in the Lombard addition to Ironton.

The W. A. L. Thompson Hardware Company of Topeka, Kansas, will enlarge its retail department to twice its present size. The company will occupy the adjoining building, 511 Kansas avenue, which will give a frontage of 50 feet.

The Roanoke Hardware Company of Roanoke, Virginia, recently celebrated the sixth anniversary of its establishment and is now reported to be carrying six times as much stock as in the first year, with business increasing at a rapid rate.

Edward and Harry Lauer of Carlisle, who recently bought the stock of the Bell Hardware Company of Elyria, Ohio, at auction for the sum of $7,016.66, will continue the general hardware business in the same location as the Bell company.

Chas. H. Tidey has purchased a manufacturing building at Greenville, Michigan, formerly occupied by the Gordon Hollow Blast Grate Company, and will use it for the manufacture of Tidey saw sets, saw guides and saw filing machinery.

It is reported that the Wilson Mfg. Company of Port Huron, Michigan, manufacturers of saws, contemplate removal from that town and that the cities of Clarksburg, West Virginia, and Tonawanda, New York, have offered inducements. The concern requires additional facilities.

Chisman & Conboy, who recently succeeded to the hardware business of J. H. Bradshaw Company at Crawfordsville, Indiana, announce that the business will be continued at the same location and with the same force of employes under the direct management of Wm. Fell, who has long been with the store.

The National Lamp Company will add new buildings to their factory in Shelby, Ohio, and employ 250 additional hands. The company controls forty-eight factories in the United States and Canada. President Crouse states that the Shelby plant will be increased within the next two years to employ over 1,000 people.

The White Hardware Company of Norfolk, Virginia, filed a mechanic's lien recently in the Norfolk county clerk's office against L. E. Tignor, general contractor for the Jamestown Exposition Company. The claim is for $298.77, for material furnished in the erection of the fire engine house at the exposition grounds.

Graves & Rockwood, hardware dealers of East Aurora, New York, have dissolved, Mr. Rockwood retiring on account of poor health. Mr. Graves and Wm. B. Taber have entered into partnership under the firm name of the Graves-Taber Company, and will continue the business at the old stand on Main street, East Aurora.

Is a wholesale hardware store benefited by adjacent trackage, or is the presence of railroad tracks in the rear of such an establishment such a damage to the place that a lower rent would have to be accepted by the owner of the building? This question was answered by Judge C. C. Cole on the witness stand in Judge Miller's court at Des Moines, Ia., recently in favor of the latter alternative, he declaring that if he had provided the Brown-Hurley Hardware Company with a railroad track when they occupied his building at the corner of Fifth street and Court avenue the premises would have had less value to them as tenants in spite of their suit in which they demanded of him $1,800 damages for not having provided the trackage. —Des Moines Register.

The McKinnon Rockaway Axe Company of Rockaway, New Jersey, has been incorporated with a capital of $25,000. The incorporators are C. D. McKinnon, S. D. McKinnon and E. M. Loewenthal. The company will continue the manufacture of the McKinnon Rockaway hand-made axe, which was first marketed by the McKinnon family in 1845.

The board of directors of the Mancelona Screen Company, Mancelona, Michigan, has elected the following officers: John Otis, president; A. M. Gifford, vice-president and manager; R. S. Thomas, secretary and treasurer. The company has a capital stock of $10,000, with $5,000 paid in. A site for a factory has been bought. They will employ about 50 men, manufacturing screen doors and windows.

The Denton Woven Wire Company has been incorporated at Denton, Texas, with a capital stock of $75,000, for the purpose of making woven wire fencing. It is expected that the plant to employ 150 hands will be in operation by August 1. The officers of the company are: J. M. Rayzor, president; M. S. Stout, vice-president; W. W. Wright, secretary; H. F. Schweer, treasurer; E. H. Crain, general manager.

J. H. Hamilton of St. Louis, well known as a sales agent in St. Louis territory, will open an office July 1st in the Security building in that city and will represent manufacturers of nails, wire, fence, hoops, bands, hardware and hardware specialties. Mr. Hamilton's wide acquaintance in the West and the number of years which he has spent as a sales agent should prove highly beneficial to the manufacturers whom he represents. He is a noted hustler and has the best wishes of THE AMERICAN ARTISAN in his new enterprise.

"PRISCO" DINNER PAILS.

One of the noteworthy products of the Pritchard-Strong Company, Rochester, New York, is their Prisco Money-Back Dinner Pail, comprising four separate food containers.

This pail is described as made of best bright, full-weight IX charcoal tin throughout, even to the pie tray, sauce dish and drinking cup, and the makers say that owing to its fine quality and heavy coating of pure block tin there is little chance of these goods rusting and they will be found unusually durable. The pails are made in three sizes, small, medium and large, and come packed one-half dozen in a solid substantial case, the shipping weights being 450, 550 and 620 pounds per gross, respectively. "Money back if not satisfactory."

For descriptive circulars, prices, etc., address Pritchard-Strong Company, 25 Circle street, Rochester, New York, and when writing kindly mention THE AMERICAN ARTISAN.

THE REPUBLIC METALWARE CO.'S PLANT.

Large additions have recently been made to the plant of the Republic Metalware Co. of Buffalo, Chicago and New York, well known to the hardware trade of the United States and also beyond the confines of this country as the successors to Sidney Shepard & Co. and manufacturers of tinware, sheet metal specialties, and Niagara and Aetna enameled ware.

The additions to the company's facilities for turning out these products have been made necessary by a greatly increased demand for their goods. For some time past they have been continually pressed to fill orders promptly, so one addition after another was made to their works until their newly completed Tecumseh street plant in Buffalo is justly claimed to be one of the largest and most up-to-date metalware factories in the world.

This mammoth plant has been entirely built within the last four years. The buildings, a view of which is shown herewith, extend along Tecumseh street for a distance of 800 feet and have a depth of 200 feet. The five-story building at the right of the picture contains the general offices of the company and was completed Sept. 1, 1906. It is a 50x100 ft. structure, modernly equipped, with special reference to the requirements of the company. One large five-story building, 200x200 feet, is bounded by Tecumseh, Tennessee and Vincennes streets, this including the mammoth stamping department. Another six-story building, 200x150 feet, stands at Tecumseh and Alabama streets, while the enameling department is found in a large building between Tennessee, Kentucky and Tecumseh streets. A corner of the building containing the offices has been constructed at an angle to admit a railroad siding to the plant.

Tecumseh Street Works of the Republic Metalware Co., Buffalo, N. Y.

Splendid Railway Facilities.

Special railroad sidings bring the superb transportation facilities which the company enjoys right to the door of their receiving and shipping departments. Everything that modern ingenuity can suggest has been installed to assist in the process of manufacture and the convenient handling of goods. The facilities for handling raw material and stock include two continuous inclined elevators and three continuous tray elevators. besides seven ordinary freight elevators. Power for the entire plant is furnished by electrical transmission from Niagara Falls. This is a decided advantage, as no power house is required, the danger from fire is greatly lessened, and plenty of power is obtainable at all times. It is an up-to-date method, strictly in keeping with the ideas that govern the Republic plant.

The number of employes of the Republic Metalware Co. has increased during the building of the new plant from about 500 to more than 1,000. The old Clinton street factory of Sidney Shepard & Co., known as the Buffalo Stamping Works, is continued in operation in addition to the Tecumseh street works. The buildings in this original plant have a frontage of 300 ft. on Clinton street and a depth of 180 ft.

The company maintains Western headquarters at Chicago and Eastern headquarters at New York and in each of these cities has large warehouses for the prompt distribution of its goods.

Having been originally established in 1836, the great concern has now passed its 70th year of manufacturing, and the experience gained during those long years has ever been devoted to the improvement of its methods and product, so that to-day its output bears the unquestioned hallmark of honest manufacture, experience and skill.

Some Notable Specialties.

Many notable specialties are manufactured by the company, including the patented Savory Seamless Roaster, enameled throughout, with steel protective heat-retaining jacket and top cover handle. The Roaster is also made of blued steel in various styles.

Here also is found the well-known "Ideal" Anti-Rust Tinware. This line includes most of the staple selling articles. These goods are made from specially prepared open-hearth drawing steel of highest quality, coated with two heavy coats of pure block tin, and each article is guaranteed to last a lifetime.

Among the notable kitchen specialties manufactured may be mentioned the Shaker Sifter, described as the one-hand sifter—"the best made," and Buffalo Steam Cereal Cookers.

Aluminum tourists' and Saratoga telescope cups—cleanly, sanitary and convenient—are also manufactured and in the list of kitchen specialties one also finds the Improved Perfection Tins, which have a simple patented groove to prevent the batter leaking. The Perfection Tins are made both round and square,

shallow for rolled cake and deep for loaf cake. A Perfection Tin Display Stand, made of metal, japanned dark brown and lettered in gold, is an attractive aid for the dealer in selling Perfection Tins.

The two special brands of enameled ware upon which the reputation of the company rests as upon a rock are the Niagara and the Aetna. These are wares which possess standards all their own. The process of manufacture includes the blanking of the raw sheet metal into shapes and sizes suitable for the subsequent operations, which then go into the stamping department, there to be shaped by stamping or drawing in presses of great cost and marvelous power into the forms of the numerous utensils finally marketed by the company. These presses, of almost human intelligence, seemingly, do perfect work under the guidance of careful operators, loyal in their work and keen to detect any slip or inaccuracy that may interfere with the perfect character of the goods.

Durability a Great Feature.

After the various stamping operations each piece of enameled ware goes through several coatings, which all tend to increase the toughness and elasticity of the enamel. Durability of the enamel coating is a strong feature of the Republic Metalware Co.'s products, and this durability is secured, first of all by the most careful workmanship throughout the various processes and then by critical inspection after every process, any defect, no matter how slight, being promptly detected and resulting in the article being thrown out from among the "perfects" and classed among the "culls."

The enameling department is one of the most interesting in a plant where all the processes possess interest of a very decided character. The dipping of the ware in enamel and the firing in the enameling ovens are done with the utmost care, since it is upon the perfection of the enamel that the reputation of the Niagara and Aetna ware largely rests, the difficulties of chipping and scaling often met with in cheap enameled ware having been practically eliminated in these brands.

At the present moment the enameling plant of the company is being remodeled and will be brought thoroughly up-to-date in every respect, no expense being spared in the effort to make it the best of its kind in existence. This is in line with the company's determination to make every department of their works as complete and modernly equipped as possible.

Niagara Enameled Ware.

In its appearance Niagara enameled ware shows the effect of the careful attention it receives from start to finish. There is about it, in the langauge of an enthusiastic admirer, "the perfection of form, delicacy of coloring and carefulness of finish that belong to quality." Each piece of this ware is inspected after every process in its progress through the various departments that gradually develop it from a blank into the finished article and if at any stage of manufacture the slightest defect shows it is promptly rejected.

Thus when Niagara ware is finally sorted into the "perfects," it must be free from everything that might unfavorably affect its wearing or selling qualities. In other words, it must be marketably perfect and up to the high standard set for Niagara ware.

The manufacturers are pardonably fond of calling attention to the delicate blue mottling on the outside of Niagara inside white ware, this mottling being done so artistically that the more closely it is examined the more graceful and beautiful it appears.

Aetna Enameled Ware.

The reputation of Aetna enameled ware is founded on the extreme toughness and durability of the coating, the makers having made this the feature of Aetna ware. The surface is smooth and glossy, the light gray color effect is pleasing, and the enamel mixtures are claimed to be absolutely pure, wholesome and uninjurious. The ware is carefully assorted and good in every way, but the one great point of superiority claimed for it is the toughness and elasticity of the enamel.

More than 60 traveling salesmen assist in the distribution of these wares and of kindred products of The Republic Metalware Co., representing the house on the road from coast to coast and from "farthest north" to the extreme south.

By means of the large improved plant, The Republic Metalware Co. believe that they can now take prompt care of all business intrusted to them. They will undoubtedly maintain in their goods the same high standard of quality which has necessitated the enlargement of their factories, and from the interest and enthusiasm manifested by all connected with the company, always remembering the splendid history of the concern in the past, it is safe to predict for the future an even larger measure of success and continued progress than the company has enjoyed in the recent years of its distinguished development.

THE TROUT HARDWARE CO. RESUMES.

The Trout Hardware Company of 49 Lake street, Chicago, has made a satisfactory settlement with its creditors and is again doing business. The making of this settlement was a remarkable performance, and that old veteran in the hardware business, Mr. W. H. Bennett, and his attorney, Mr. David B. Gann, of Chicago, are entitled to a great deal of credit for accomplishing without resort to courts or litigation what, since the enactment of the bankruptcy act, has heretofore been regarded as impossible.

Embarrassed business houses usually find themselves speedily in the bankruptcy courts. This is where their good will and assets are torn to pieces with little apparent regard for the ultimate outcome. In this instance, however, the situation seems to have been so managed that each one of the seven hundred and fifty creditors has joined to make this settlement a success and keep the house alive, and the success of the effort, as one creditor remarked the other day, "certainly indicates saner, calmer and wiser methods for handling situations of this kind."

Mr. Bennett has completed his labors in behalf of the company and is again attending to his own affairs, but the lesson which this instance teaches is certainly worth bearing in mind as against the time when other similar instances will call for like handling.

Remember this when you write your ad.: White space is better than superfluous words.

THE WINDOW A SILENT SALESMAN.

BY C. T. CULLOM, WITH KNIGHT-MARSHALL-HOWE HDW. CO., SEDALIA, MO., WINNER OF THE SECOND PRIZE IN THE AMERICAN ARTISAN WINDOW DISPLAY COMPETITION, 1907.

One of the greatest problems of to-day which a merchant has to solve, is how to influence trade.

Naturally, the first thing to do is to use the newspapers freely. Let the public know who you are, what you are, and impress upon them that you are *alive and up-to-date,* and in position to give them good value for their money.

And when you have advertised, be sure that you have the goods which are, in every particular, all you claim for them, so that your patrons will have *confidence* in you and your goods. If you can't get their

C. T. Cullom, Sedalia, Mo.

confidence your efforts to get their trade will be in vain.

The first step toward gaining the confidence of the public will be in the appearance of your store. Let a customer come into your store and find everything topsy-turvy and he will at once lose confidence in you as a storekeeper.

To my judgment the window is the index to the whole store.

When you see a nice window display, just step inside and you will find, without single exception, a well arranged store. You will find each class of goods arranged to good advantage and well displayed. No jumbled-up goods there.

Ninety-nine chances out of a hundred, when you see a store with attractive window display, inside you will find energetic, industrious clerks and a prosperous business.

In talking to merchants who do not pay attention to window displays, it is almost a universal opinion that it is too much work and expense for the results obtained. Also that it takes a window dresser of experience to make an attractive window.

This is a very erroneous idea. For instance, the display for which THE AMERICAN ARTISAN recently awarded me the second prize in its contest, took me just two days' work in arranging at intervals when I was not busy waiting on trade. I could easily have arranged it in half a day with nothing else to do, and all the actual expense was not to exceed five cents.

I do not pretend to be an expert window-dresser; in fact, my experience is very limited; and I am encouraged to know that I was able to win a second prize among so many contestants.

There isn't a store in the country but what has a clerk who could with a little time, a few cents, and *the good will of his proprietor,* make a window which would attract a great deal of attention, and draw trade enough to pay his time and the few cents spent many times over.

The results obtained from success in window dressing will fire the ambition of any clerk, and lead to better arrangement and display throughout the store. "Goods well displayed are one-half sold." Taking into consideration the silent salesman, the *Window,* as per salary you pay, is the best inyestment any merchant can make.

THE HESSLER RURAL MAIL BOX.

A rural mail box of which it is claimed that one and a half million have been sold up to date is found in "the Hessler," manufactured by H. E. Hessler Company of Syracuse, New York. This box is made of No. 22 galvanized steel and is 18 inches long and 6¾ inches in diameter. It has been approved by the postmaster-general and has many recommendations. It is described as coated with weatherproof aluminum bronze and neatly stenciled with coach black of good wearing qualities. The cover is hinged on eight-pound tin rivets and is self-closing and self-locking, the latch being made of No. 13 brass spring wire, so

constructed that it forms a staple for locking when desired.

The Hessler has a heavy bracket-shaped brace for fastening to the post and six barbed three-inch car nails are sent with each box.

The boxes are packed one dozen to a crate, shipping at 80 pounds to the crate. A solid brass lock is furnished, with six inches of brass chain and two steel keys, while master keys are furnished to the carriers. For prices, etc., address H. E. Hessler Company, Syracuse, New York, and when writing kindly mention THE AMERICAN ARTISAN.

BOSTON CONVENTION ARRANGEMENTS.

A preliminary program has been issued for the joint convention of the National Retail Hardware Association and the New England Hardware Dealers' Association, which will be held at the New American House, Boston, Massachusetts, June 18 to 21, 1907.

The officers of the New England association have, with various committees, made all possible arrangements for the entertainment of delegates and visitors and following the custom of the association particular attention will be paid to the entertainment of lady visitors. Several side trips and excursions have been arranged for, including visits to Concord and Lexington, the Charlestown Navy Yard, and New Britain Connecticut, besides various points of interest in the city of Boston.

The program for the opening day, Tuesday, June 18, includes addresses of welcome by Gov. Curtis Guild, Jr., of Massachusetts, and Mayor John F. Fitzgerald, of Boston, with a response by President Edward M. Bush, of Evansville, Indiana, for the National Retail Hardware Association.

Mr. John B. Hunter, of Boston, president of the New England Hardware Dealers' Association, will welcome the delegates to the joint convention, with a response by Mr. A. T. Stebbins, of Rochester, Minnesota, treasurer of the National Retail Hardware Association. An address by President Bush will follow, and ex-President W. P. Bogardus, of Mt. Vernon, Ohio, will then speak on "Our National Association."

The officers of the two associations will meet subsequently for an executive session and luncheon. The joint convention will reassemble Tuesday afternoon at 2 o'clock, when the program will include addresses by the president, secretary, and treasurer, and an address on "Trade Boundaries" by H. G. Helgeson, of North Dakota.

On Wednesday, June 19, executive sessions of both associations will be held in the morning and the nomination and election of officers will occur after the committees' reports have been received. At 5 p. m. the annual ladies' night reception and promenade concert will take place, followed at 6 o'clock by the annual ladies' night banquet, with President John B. Hunter of the New England association as toastmaster. The following speakers have been invited: Lieutenant-Governor Eben S. Draper, of Massachusetts; Mayor John F. Fitzgerald, of Boston; President E. M. Bush, of National Retail Hardware Association; President Charles E. Adams, of Massachusetts State Board of Trade; President C. W. Asbury, of National Hardware Manufacturers' Association; Rev. E. A. Horton, chaplain Massachusetts Senate; Mrs. S. H. Thompson, of Lowell.

On Thursday morning a joint executive session will be held and addresses will be delivered by A. T. Anderson, of Cleveland, Ohio; J. H. Drury, of the Union Twist Drill Company, Athol, Massachusetts; M. L. Corey, and R. R. Williams. Vice-President Edgar Van Etten of the New York Central and Hudson River Railroad, will speak on "Ethics of Rate Making."

The Question Box is on the program for 2 p. m., Thursday, and at 7:30 there will be an "Indian supper" for gentlemen.

On Friday, June 21, the next meeting place will be decided upon, the new officers will be introduced and the convention will close.

A committee of ladies headed by Mrs. J. B. Hunter, of Boston, wife of President Hunter, will make plans for the entertainment of the visiting ladies during the sessions of the convention. The entertainment will include shopping parties, theater matinees, and baseball parties. Mayor Fitzgerald will tender an excursion to the members and their friends on the municipal steamer to the penal institutions of the city in Boston Harbor.

Arrangements for Western Delegates and Visitors

The committee of the Chicago Retail Hardware Association that has had in charge the arrangements for attending the annual meeting of the National Retail Hardware Association at Boston, June 18 to 21, is composed of Messrs. W. H. Bennett and G. R. Lott, and has sent the following communication to members:

Room 403, 40 Dearborn St., Chicago Ill., May 27, 1907.

Dear Sir:

The following rates apply from Chicago to Boston, Mass., for the meeting of the National Retail Hardware Association, June 18th to 21st, 1907.

No. 1. Chicago to Boston and return (direct), $44.00.

No. 2. Chicago to Boston (direct) and returning via New York, $46.65.

No. 3. Chicago to Boston, returning via New York and Jamestown, round-trip, $38.00.

No. 1. The direct route to Boston at $44.00 will be Lake Shore-New York Central, Chicago to Boston via Albany and returning by the same route, unlimited time as to returning.

No. 2. The second rate of $46.65 is going via Lake Shore-New York Central, and returning via the New York, New Haven & Hartford to New York, the New York Central to Buffalo and the Lake Shore & Michigan Southern to Chicago.

No. 3. The rate of $38.00 from Chicago via Boston, New York and Jamestown, good for 60 days, is over the Lake Shore & Michigan Southern to Niagara Falls, New York Central lines to Boston, the New York, New Haven and Hartford to New York. The Pennsylvania and New York, Pennsylvania & Northern to Norfolk, the Norfolk & Washington Steamship Company to Washington and you can then take any line from Washington to Chicago you may wish, the Chesapeake & Ohio via Cincinnati; the Big Four or the Baltimore & Ohio, the Pennsylvania via Pittsburg or over the Pan Handle by way of Columbus.

These tickets via Jamestown are limited to sixty days, stop-over at Niagara Falls, Boston 10 days, New York 10 days, Philadelphia 10 days, Baltimore 10 days and Washington 10 days.

Each passenger must designate their route before purchasing ticket.

The Pullman rate from Chicago to Boston is $5.50, and, if the special Pullman cars are retained for side-trip at Niagara, an extra charge of $1.00 for each berth to be used will be made.

All delegates or others attending this convention, who reside west of Chicago will procure their tickets on this basis at a corresponding special rate to Jamestown from starting point and it will be just as well to get a certificate, if possible, as a delegate to this convention. All delegates living in Indiana, Michigan and Ohio can arrange to buy their ticket from their starting point on this basis and can come to Chicago, Toledo, Cleveland or any large town on the line of this road that they can make best.

This special train will leave Chicago at 1:45 p. m. on Saturday, the 15th day of June, 1907, from the LaSalle Street

Depot over the Lake Shore & Michigan Southern Railroad and delegates can be picked up at Toledo at 7:50 p. m. and Cleveland at 10:30 p. m. We expect to be in Niagara Falls one day and leave there Sunday evening for Boston and make the round trip then by way of New York and Jamestown for all of those who care to take in the Exposition. Those who do not care to take in the Exposition and have to return can secure the rates above given as they are the best we can get. There is no special arrangement to be made for a rate from Chicago to Boston other than the above.

If you will kindly advise the writer just where you will board the train he will make arrangements to send you a card notifying you of the berth or section which has been reserved for you on this train so that there will be no inconvenience. Also, should you come to Chicago, the headquarters of the members will be at the Great Northern Hotel, corner of Jackson boulevard and Dearborn street.

The writer has gone over this matter very carefully with all the different roads running East and does not see any other way to accommodate the majority of the delegates East of Chicago by any other route than the one mentioned; therefore, has made arrangements accordingly, and we would like you to write as soon as you have made up your mind to go and how many will be in your party from your city, if you attend, so that we can make reservations accordingly. "First come first served." The minor details of the trip will be arranged for and further information given you upon your arrival in Chicago or on the train at the meeting points above mentioned.

We enclose you a map of the Lake Shore & Michigan Southern Road showing routes. Read this notice carefully and buy your tickets so that they will be entirely satisfactory to you. Should there be any change of rates less than mentioned above, you will be notified in time to procure same before starting on the trip. A representative of the New York Central Lines will accompany the party through to Boston to look after the welfare and comfort of the members.

Yours very truly,
W. H. Bennett, Chairman.

SIMMONS HARDWARE COMPANY IN DENIAL.

President W. D. Simmons of the Simmons Hardware Company, St. Louis, Missouri, says with reference to the recent report that his company might start a branch house in Youngstown, Ohio, that the idea has neither been suggested to the company by others nor has it suggested itself to their minds.

It is not the first time by many that similar rumors have been circulated regarding prospective branches of the Simmons Hardware Company, and with regard to all such reports President Simmons writes: "There have been a great many rumors about our establishing branches in all parts of the country; most of them have as their only foundation the desire of the people in a thriving and growing city to have us establish a house, and by doing so insure the recognition of that point as the distributing center of that general section."

MORE VICTORIES FOR STEVENS RIFLES.

At the triennial shooting festival of the National Schuetzen Bund of the United States, held at Charleston, S. C., May 6th to 14th, 1907, Stevens Rifles once more made a most impressive showing by securing eighteen out of the twenty-two leading prizes.

This international tournament is of great importance and expert marksmen from all sections competed for the various prizes.

The constant succession of Stevens victories illustrates in the most striking manner possible, the J. Stevens Arms & Tool Co. say, that for best results Stevens and Stevens-Pope rifles are absolutely indispensable. They are claimed to be in a class by themselves when it comes to fine marksmanship, continually proving their title as "the best of target rifles."

BUCKEYE PAINT PRODUCTS.

"Five Good Things from the Buckeye" is the title of a neat folder issued by the Buckeye Paint & Varnish Company of Toledo, Ohio, to call attention to some of the paint specialties manufactured by them. The good things are headed by their Buckeye Mixed Paint, which is their leading product and is fully guaranteed as an excellent machine mixed paint.

The Buckeye White Lead is also a guaranteed product, claimed to be strictly pure, and the makers say will give a whiter finish, go farther and last longer than any lead on the market.

The Crystal Rock Varnishes made by the Buckeye Paint Company are described as "the best interior and exterior varnishes on the market to-day and recommended by first-class architects."

The Buckeye Carriage Paints are ready for use and put up in half-pint, pint and quart cans. They are ground in coach varnish of the company's own manufacture and dry quickly with a handsome gloss and durable finish.

The fifth of the "good things" included in the folder is Buckeye's Decorative Home Paint, designed for household use and put up in shape convenient for both the consumer and the dealer.

The Buckeye Paint & Varnish Company also manufacture Buckeye Silex Floor Paints, Buckeye Shingle Stains and Buckeye Wood Fillers; also barn, fence and roof paints, etc. Dealers are requested to write for prices and catalogue. When writing the company kindly mention The American Artisan.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Clinton, Oklahoma—The Brown Hardware Company was incorporated with a capital stock of $10,000.

Janesville, Wisconsin—The Lowell Hardware Company has been incorporated with a capital stock of $10,000.

Cleveland, Ohio—The City Hardware & Supply Company incorporated with a capital stock of $10,000.

Hot Springs, Arkansas—Tucker Hardware Company incorporated with capital stock of $25,000.

Camden, Alabama—Matthews Hardware Company incorporated with $10,000 capital stock.

BUSINESS CHANGES.

Maroa, Illinois—L. Camp sold his hardware store to I. G. Lumville of Roanoke.

Narka, Kansas—William Elliott sold his hardware store but will not give up possession until July 15th.

Logan, Kansas—H. F. Bashford has traded his large stock of hardware, furniture and harness to Mr. McDaniels.

Shelbina, Missouri—F. M. Grout has bought E. Miller & Co.'s stock of hardware and will move to the Miller building at once.

MISCELLANEOUS.

Bridgeport, Illinois—The hardware store here was robbed.

Macedon, New York—The Eldridge Hardware Company's store was robbed, the loss being heavy.

Advertising Department

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

We reproduce one of the advertisements of the Kelsey warm air generators, which are furnished in electrotype form for the use of retailers who can add their names, etc., after the reading matter of the ad. These electrotypes are sent by the Kelsey Heating Co., Syracuse, N. Y., to dealers who apply for them and there is hardly any question about the effectiveness of this style of local advertising. The plan and style of the electrotype advertisements have been carefully thought out so as to produce the best results from the space required, which is 6 inches, double column of an ordinary newspaper.

There is everything requisite in this advertisement save the price and in furnace advertising it is seldom deemed advisable to quote prices, one reason being that the cost of installing furnaces varies and many people prefer to have an estimate made complete in all details as to cost.

For Kelsey dealers this advertisement can be highly recommended and Kniffin & Hopkins of Goshen, Ind., have made good use of it at the present instance.

The talking points of the Kelsey are well brought out in black letter lines beside the sectional cut. A strong argument for the Kelsey is made and it is a furnace ad bound to attract attention and to interest those who are looking for warm air heating apparatus.

* * *

"The object of advertising is not so much to sell an article that everybody wants, as to make everybody want an article that the advertiser sells."—Natchez Democrat.

* * *

The black letter advertisement of the Beatty Hardware Company which we reproduce originally occupied a 4-inch double-column space in the Beardstown, Illinois, Enterprise. It is of a character seldom met with as far as typographical appearance is concerned and we are inclined to give it our complete approval as a general hardware advertisement, that is, an advertisement of a standing character which does not refer to any particular line of goods.

The references to garden seeds, awnings, poultry net and lawn mowers give it a springlike character and it is difficult to take exception to the advertisement. Of course a wide range of goods is covered. There is a vast deal of difference between plows and wagons and garden seeds. The modern tendency is to specialize in advertising, as in everything else—to call attention to one thing at a time, except where prices are freely named, as in department store advertising.

If the Beatty Hardware Company seldom change their advertisements the one under review is not a bad

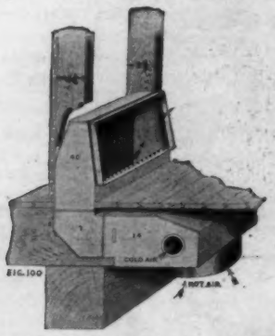
one. If they do change from time to time, they should call more direct and individual attention to some one line of goods.

Heating and Ventilating

PERFECTION PIPE AND FITTINGS.

The Perfection Furnace Pipe Co. of Toledo, Ohio, are now in their eighteenth year of manufacturing Perfection furnace pipe and fittings, and report a phenomenal growth in their business which they say is due to their recognition of the fact that the furnace trade is always demanding the best in connection with their furnace work, and that they strive to make Perfection goods the most perfect in material and workmanship of any furnace pipe manufactured.

The company manufacture a complete line of double



and single wall stacks and fittings, round pipe, elbows, angles, etc., in IC and IX tin, black or galvanized iron; special fittings (either double or single) for special side wall registers, and in addition carry a complete stock of registers, cast or steel, asbestos paper, asbestos cement, dampers, pulleys, chain, etc.

A complete catalogue of Perfection goods and prices will be sent upon request. When writing for the same kindly mention THE AMERICAN ARTISAN.

THE NOVELTY FURNACE HANDBOOK.

A handbook which constitutes a practical and comprehensive guide for the furnace man, containing complete directions for the installation of the Novelty Warm Air Furnace System of heating and ventilation, is published by the Abram Cox Stove Company of Philadelphia, Pennsylvania, under the title, "Novelty Furnace Handbook." In this book the company furnishes to the man who installs warm air furnaces information and directions in regard to heating and ventilation of a decidedly novel character. A single sentence from the introduction to the Novelty Handbook conveys the best possible idea of its character and scope. The publishers say: "Instead of vague statements, guarded qualifications and rule-of-thumb suggestions, we give clear, definite, positive data and directions, which can be applied to any job of furnace heating or ventilation by any furnace man who has sufficient ability as a mechanic to properly carry out the work of installation."

There is no question about the practical character of this work, which by means of tables and rules gives a wealth of definite information upon the subject of warm-air heating. Rules and tables are provided to determine the proper size of warm air pipe and warm air register to use for each room; the proper size of ventilating duct and ventilating register to use for each room where a system of ventilation is installed; the proper size of cold air duct, ventilating shaft and chimney flue to use with any given job, and other information necessary for the installation of an adequate and sanitary warm air heating and ventilating plant. The entire system of rules and directions given by the Abram Cox Stove Company constitutes their Novelty Warm Air Furnace System, which is not intended to be applied by the amateur but by the furnace man of skill and experience.

The Novelty Furnace Handbook is not distributed at random, but every copy issued is numbered, registered and issued with the understanding that it is to be used solely and exclusively in connection with plans and specifications for the installation of the Novelty Warm Air Furnace System.

Dealers and furnace men are strongly advised to secure a copy of this work for profitable perusal. When writing for a copy kindly mention THE AMERICAN ARTISAN.

THE LION FURNACE.

The Youngstown Furnace & Supply Company of Youngstown, Ohio, are the manufacturers of the Lion Furnace, with which either hard or soft coal can be used. The object of the construction of this furnace has been and is to give the greatest possible amount of heat with the least quantity of fuel. The construction is scientifically simple, rendering the furnace little likely to get out of order, while the heating capacity is unusually large.

The fire-pot of the Lion furnace is interchangeable with that of the Apex furnace made by the same company. Furnace men are said to find the Lion to be a fine seller and altogether a very satisfactory proposition, pleasing the purchaser by its simplicity of construction, its durability and its splendid heating qualities. A complete catalogue of the Youngstown Furnace & Supply Company's line will be sent on request. When writing, kindly mention THE AMERICAN ARTISAN.

PARAGRAPHS.

The Ravenna Furnace & Heating Company of Ravenna, Ohio, is building a foundry 80x100 feet, and will manufacture the Ravenna cast iron hot air furnace.

The Decatur Furnace Co. of Decatur, Illinois, recently elected the following officers: President, D. J. Guilfoyle; treasurer, C. A. Dugan, and secretary and manager, James Doherty.

The plant of the Brien Heater Company, manufacturers of hot air and combination furnaces, has been removed from Hoosick Falls, New York, to Westfield, Massachusetts, where better transportation facilities are enjoyed.

At a recent meeting of the directors of the Pennsylvania Furnace & Stove Company, recently organized at Warren, Pennsylvania, the following officers were elected: President, Horace Grary; vice-president, C. Schellhammer; secretary and treasurer, C. J. Grary; manager, A. L. Schellhammer.

Tinshop

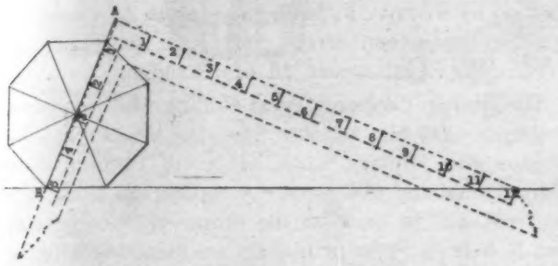
BRO. OSBORNE ON THE STEEL SQUARE.

To THE AMERICAN ARTISAN:

In your issue of May 11th, Brother A. A. Jones says, in regard to my version of his steel square problem: "Now, mathematically, Brother Osborne, you are perhaps right, but my problem is a steel square problem, and if you can give me any other figures on the steel square, other than five inches on the tongue and twelve inches on the blade, to cut an octagon in a miter box, you will confer an everlasting favor."

Now I will answer these remarks in the order in which they appear.

Yes, I believe I am mathematically correct in the statements I made in the article which appeared in the April 27th issue, and that 4 and the decimal



.9705632 and 12 are the correct figures to make an octagon cut.

Yes, Brother Jones, I noticed that your problem was in reference to the steel square, and so was my answer. And if I am mathematically right, then it necessarily follows that I am also right as to the steel square, for a first-class steel square is mathematically correct.

And now in regard to the figures other than 5 and 12 for cutting an octagon in a miter box, I do not suppose that any others are needed for ordinary work, although 4 31/32 and 12 are more nearly correct. As 4 31/32 is almost the same as 4.9705632 (being exactly 4.96875), it may be used to advantage if your square has the 32nd on, and if not, then guess at one half a 16th less than 5. I know that in cutting sheet metal these figures make a more perfect octagon than 5 and 12, but as 5 and 12 have a tendency to make the point just a trifle long, and in cutting some kinds of lumber in a miter box the saw inclines to run slightly more across the grain of the wood than the exact line of the guides, the variation might be thus corrected by accident instead of by design.

In the accompanying cut is shown, at A, the difference between the angle of the square placed at 5 and 12, and the angle of the diameter of a true octagon. This difference amounts to almost one-half a degree.

The angle where the extremity of a diameter meets the end of one of the sides of the octagon (say at B in the cut) is 67½°, and the angle of the tongue of the square at the same point, when placed as shown, with the figures 5 and 12 on the line of the side, is only a very slight fraction more than 67°.

And now, Brother Jones, let us "saw off," and let the slight difference on this question offset the fraction of difference on the sailing-vessel question recently, and shake hands and still be friends.

H. E. OSBORNE.

Salt Lake City, Utah, May 16, 1907.

SHEET METAL WORKERS AND JOBBERS.

Representatives of the master sheet metal workers of Philadelphia and officers of the National Association of Master Sheet Metal Workers met on Tuesday, May 28, with the members of the Philadelphia Tinplate Jobbers' Association, at the invitation of the latter, in order to discuss the plan of trade protection recently promulgated by the national association.

A prolonged discussion of much interest to both sides was held and the jobbers and masters will meet again on Tuesday, June 4, when it is thought that some conclusion will be reached.

With regard to recent reports that the jobbers of Philadelphia have for years given a generous recognition to the trade protection principle the following letter has been received:

To THE AMERICAN ARTISAN:

While it may be true that the Jobbers' Association of Philadelphia have during the past few years considered trade protection something which was due the master, the recognition of this fact was not put in practice in the manner it should have been, and the established customs of former years having enlarged, have gradually worked havoc with the business of the master, so that now he is compelled to insist on some method being adopted to better protect his trade, and to regain, if possible, that which has been lost through the encroachments of others, by the sale of material, from which source he derives his greatest benefit, and it is hoped that the jobber will be in accord. MASTER.

Philadelphia, May 29, 1907.

THE "STAY-ON" CHIMNEY TOP.

The method in which the "Stay-On" chimney top is fastened in place is apparent from a glance at the illustration herewith, which shows the manner in which this cast-iron top is firmly anchored to the chimney. It

The "Stay-On" Chimney Top.

is made by the Holland Furnace Company of Holland, Michigan, is adjustable to fit any chimney and the manufacturers claim it is easy to put on and will not come off. It is made in three sizes, with seven-inch, eight-inch and nine-inch flues. The base of the seven and eight-inch sizes is 12x16 and of the nine-inch size 16x16. For prices, etc., address the manufacturers, the Holland Furnace Company, Holland, Michigan, and when writing kindly mention THE AMERICAN ARTISAN.

NOTES AND QUERIES.

CAN MANUFACTURERS.

From J. C. Loehr, Lone Tree, Iowa.

Please give me the names of manufacturers of all kinds of cans?

Ans.—Stuber & Kuck, Peoria, Illinois; J. L. Clark Mfg. Company, Rockford, Illinois; American Can Company, Chicago, Illinois.

REPAIRS FOR BLUE FLAME KEROSENE STOVE.

From G. T. Mueller, Columbus, Wis.

Please advise me where I can obtain repairs for the Blue Flame Sunshine (wick) Kerosene Stove.

Ans.—From the Novelty Mfg. Company, Jackson, Michigan, who manufacture this stove.

FOLDING SHEET METAL BOXES.

From J. A. Dawson, Purcell, Ind. Ter.

Please give me the address of a firm who can make folding sheet metal boxes?

Ans.—C. Doering & Son, 223 West Lake street, Chicago.

CRESCENT LAWN MOWER.

From W. R. Butler, Anamosa, Ia.

Please give me the address of the firm that makes the Crescent Lawn Mower.

Ans.—We have been unable to learn the address of the manufacturer of the Crescent Lawn Mower. We believe it is a jobber's private brand, but have been unable to learn the jobber's address.

ADDRESS OF SUPERIOR STEEL COMPANY.

From United States Register Company, Battle Creek, Michigan.

Will you kindly give us the address of the Superior Steel Company?

Ans.—Carnegie, Pennsylvania.

CARBORUNDUM WHEELS FOR A GRINDER AND POLISHER.

From C. P. Hosmer, Belle Plaine, Iowa.

Can you tell me where I can get carborundum wheels for the No. 500 "Electric" diamond grinder and polisher, sold in 1905-06 by W. F. Knapp & Co., 1314 Olive street, St. Louis, Missouri?

Ans.—We have referred your inquiry to the Carborundum Company, Niagara Falls, New York.

BLACKSTONE ROTARY WASHING MACHINE.

From John Glynn, Princeton, Illinois.

Who manufactures the Blackstone rotary washing machine?

Ans.—The Blackstone Manufacturing Company, Jamestown, New York.

ITEMS.

The Streator Metal Stamping Co. of Streator, Illinois, is building a machine shop 36x100 feet, one story of brick and concrete.

A four-story brick stamping factory, 60x80 feet, estimated cost $25,000, is being erected for R. Wallace & Sons Mfg. Co., Wallingford, Connecticut.

English manufacturers of galvanized sheets report a good South African demand. Five-gallon and other sizes of milk cans are also in good demand.

The Standard Galvanizing Company of West Pittsburgh, Pennsylvania, has been incorporated by R. W. Atwood of Bellevue, Pennsylvania; W. B. Bruce of Allegheny, Pennsylvania, and J. W. Clark of Beaver, Pennsylvania, and will build a plant. The capital stock is $50,000.

Edwards & Chamberlin have been succeeded in the tinshop and furnace business at Kalamazoo, Michigan, by the Kalamazoo Sheet Metal & Manufacturing Co.

After being in convention at Toledo, Ohio, for three weeks the Amalgamated Association of Iron, Steel and Tin Workers adjourned May 23 to meet next year in Youngstown, Ohio.

The Bohnert Mfg. Co. of Paris, Illinois, has been incorporated with a capital of $5,000 to manufacture sheet iron products. The incorporators are George A. Bohnert, Thomas F. Connell and Anna Bohnert.

The Lunken Steel Window Co. of Cincinnati has been incorporated with a capital of $100,000 by Edmund H. Lunken, David C. Jones, Charles M. Conklin, Louis H. Nolts, B. B. Dale and S. L. Moyer.

The Bay Ridge Steel & Metal Works, Brooklyn, New York, has been incorporated with a capital of $20,000 by Thomas P. Flanagan, James A. Flanagan, 672 Seventy-second street, and Julia A. Flanagan, 415 Eighty-eighth street, all of Brooklyn.

The Buffalo Copper & Brass Rolling Mill Company, a new industry capitalized at $500,000, has purchased a site on the Military Road at North Buffalo, New York, containing five acres. A copper and brass rolling mill will be built on the property. George Ray and Robert L. Fryer of Buffalo are identified with the project.

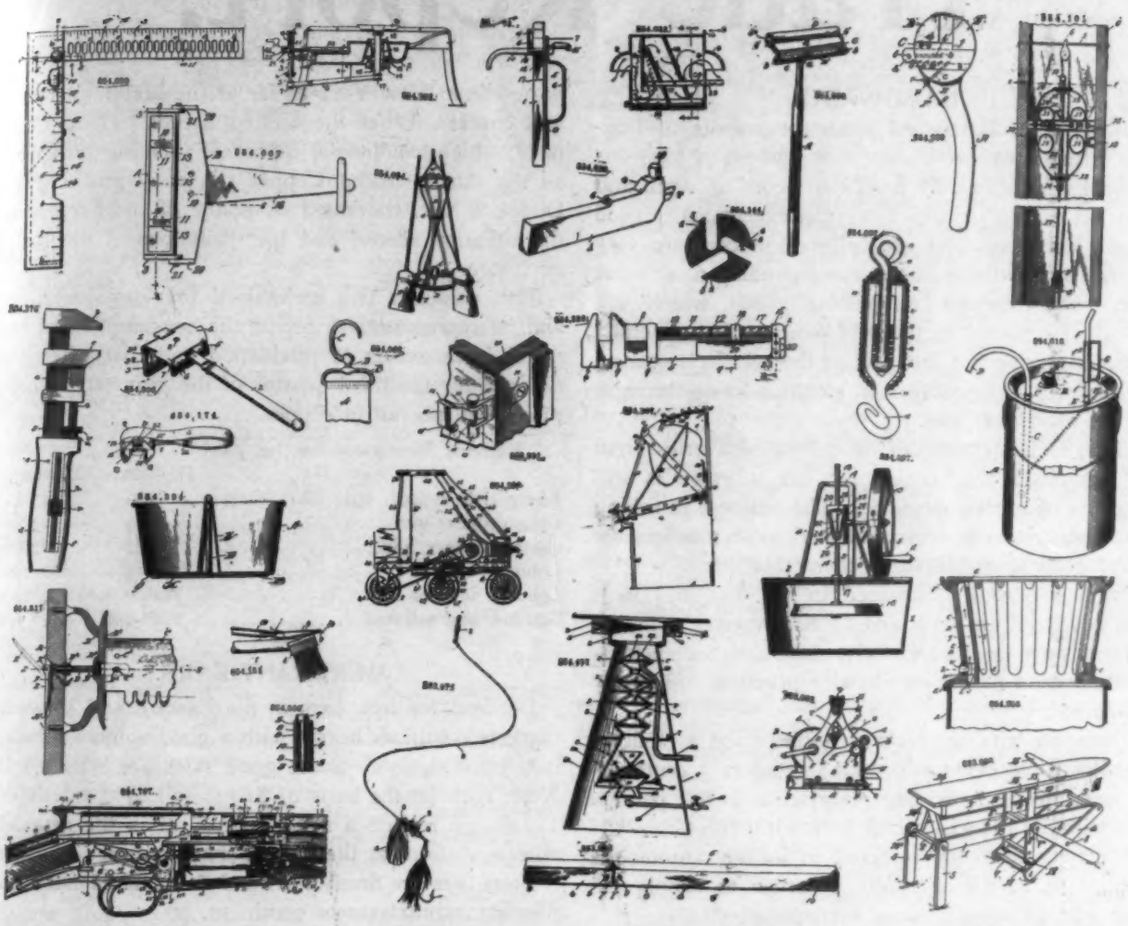
Consul-General D. F. Wilber of Singapore reports that the tin output of the Federated Malay States during January and February amounted to 7,875 tons, against 7,603 tons for the corresponding period of 1906. The exports of tin for the same period amounted to 8,373 tons, a decrease of 2,188 tons from the exports for the two months of 1906.

One of the recent features of South African trade which appears to have escaped general attention is the remarkable growth of this market for tinware, the demand last year more than doubling in volume, rising from $161,587 in 1905 to $340,772 in 1906. As in all other branches of the hardware trade, the demand is for medium and high quality only.

The master sheet metal workers of Cleveland, Ohio, are making the most complete arrangements for the convention of the National Association of Master Sheet Metal Workers to be held in that city in August. They have appointed committees to attend to all the details of the arrangements and the plans made for the occasion will insure the comfort and pleasure of all who attend the meeting.

The Ohio Roofing Company has been organized in Cleveland to succeed The Shackleton Company and Kain & Tack, the two concerns having been combined under the new title, with Robert Kain as president, H. M. Webster vice-president, W. G. Tack treasurer, and F. M. Slade secretary. The company will do a general business in the manufacture of skylights and sheet metal work and also slate roofing. The factory of the company occupies a building 175x125 feet at 1477 Euclid avenue, near E. 14th street, Cleveland, and is equipped with power machinery.

NEW PATENTS.



853,958—Razor-Stropping Machine. Edward C. Bowden-Smith, Brockenhurst, England. Filed July 6, 1906. Serial No. 324,999.

853,960—Safety-Razor. Russ J. Christy, Fremont, Ohio. Filed May 3, 1906. Serial No. 315,102.

853,972—Artificial Bait. Edward A. Grout, Medford, Mass., assignor to William Read & Sons, Boston, Mass., a firm. Filed Oct. 17, 1906. Serial No. 339,313.

853,982—Weather-Strip. Henry W. Kraft, Arcadia, Mich. Filed Mar. 28, 1906. Serial No. 308,611.

853,991—Door or Sash Lock. William H. McKeiver, Indianapolis, Ind., assignor to Thomas M. Hardy, Jr., Pendleton, Ohio. Filed Sept. 10, 1906. Serial No. 333,959.

853,998—Combined Ironing-Board and Wash-Bench. Alfred Schedin, Moscow, Idaho. Filed Jan. 21, 1907. Serial No. 353,343.

854,033—Window-Ventilator. John T. Glazier and Columbus C. Parker, Indianapolis, Ind., assignors of one-third to Cyrus J. Clark, Indianapolis, Ind. Filed July 17, 1906. Serial No. 326,533.

854,067—Metal-Bending Machine. Charles E. Weeks, Carterville, Mo. Filed Jan. 21, 1906. Serial No. 353,345.

854,068—Razor-Strop Fastener. William Whiteley, New Britain, Conn., assignor to North & Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut. Filed Jan. 21, 1907. Serial No. 353,203.

854,084—Broom-Rack. Orland C. Fletcher, Chicago, Ill. Filed Dec. 12, 1904. Renewed Nov. 2, 1906. Serial No. 341,780.

854,087—Spring Device. Carl Hainlin, New York, N. Y., assignor, by direct and mesne assignments, of one-fourth to Eugene E. von Seyfried, Newark, N. J., and one-fourth to Julius Davis, New York, N. Y. Filed Feb. 18, 1907. Serial No. 358,045.

854,101—Chimney-Cleaner. Oliver N. Miller, Florenceville, New Brunswick, Canada, assignor of one-half to G. Fred Turner, Florenceville, New Brunswick, Canada. Filed Apr. 3, 1905. Serial No. 253,718.

854,144—Drill-Bit. Peter Broadbooks, Batavia, N. Y. Filed Aug. 3, 1906. Serial No. 329,036.

854,151—Window-Cleaner. John Deasy, Detroit, Mich. Filed Oct. 2, 1906. Serial No. 337,062.

854,174—Ratchet-Wrench. Joseph N. Noyer, Gould City, Wash. Filed May 17, 1906. Serial No. 317,366.

854,202—Gas-Stove Attachment. Edward Effert, Philadelphia, Pa. Filed June 21, 1906. Serial No. 322,786.

854,267—Clothes-Drying Device. Amasa M. Bullock, Vancouver, British Columbia, Canada. Filed Jan. 16, 1906. Serial No. 296,302.

854,289—Skylight Structure. William F. Plass, New York, N. Y. Filed Jan. 15, 1907. Serial No. 352,128.

854,299—Motor-Skate. Charles I. Matson, Chicago, Ill. Filed May 17, 1906. Serial No. 317,314.

854,338—Wrench. Griffen H. Deeves, Chicago, Ill. Filed Mar. 11, 1907. Serial No. 361,789.

854,358—Stove. William S. Jackson, Detroit, Mich. Filed Dec. 29, 1906. Serial No. 350,021.

854,376—Wrench. Finlay McArthur, Montreal, Quebec, Canada. Filed Mar. 2, 1906. Serial No. 303,910.

854,394—Combined Colander and Cake-Pan. Charles W. G. Allender, Washington, Pa. Filed Feb. 23, 1907. Serial No. 358,939.

854,497—Heater. Casper H. Henzel, Allegheny, Pa. Filed Dec. 4, 1906. Serial No. 346,224.

854,506—Safety-Razor. Walter H. G. King, Denver, Colo. Filed Jan. 24, 1907. Serial No. 353,819.

854,517—Saw-Handle. William B. McCain, Clearlake, Wash. Filed Feb. 14, 1906. Serial No. 300,999.

854,580—Hinge. William S. John, Humansville, Mo., assignor of one-half to Edgar E. John, Billings, Mont. Filed Dec. 5, 1906. Serial No. 346,455.

854,597—Washing-Machine. Ira L. Owens, Effingham, Kans. Filed Nov. 21, 1905. Serial No. 288,349.

854,618—Oil or Gasolene Can. Theophilus W. Alexander, Burlington, Iowa. Filed Feb. 28, 1907. Serial No. 359,866.

854,659—Folding Square. John H. Matthews, Hollister, Cal. Filed Feb. 19, 1907. Serial No. 358,227.

854,669—Tool-Holder. Michael D. Reidy, Worcester, Mass. Filed June 20, 1906. Serial No. 322,599.

854,707—Automatic Firearm. William Mason, New Haven, Conn., assignor to the Winchester Repeating Arms Co., New Haven, Conn., a corporation. Filed Feb. 12, 1906. Serial No. 300,632.

Trade Report.

HARDWARE.

As was anticipated last week the volume of business in the hardware trade for the month of May has shown some falling off from the record of April and also that of March, which was an exceptionally good month, but May sales are believed to compare very favorably with those of the corresponding month last year. The demand for sporting goods, which was somewhat retarded by the cold weather that generally prevailed during the first part of the month, is now on in full force and promises to continue lively throughout the month of June.

There is less complaint of delayed deliveries from the manufacturers, though the car shortage is still the cause of some annoyance. The business in fishing tackle, etc., is now very good and most retailers are devoting considerable attention to this line.

Prices are well maintained in all lines and have been advanced on brass and bronze screws.

The strong demand for wire nails and wire netting continues and prices on all wire products are firmly maintained.

Prices on wire products to jobbers are as follows in carload lots per 100 pounds; retailers 5 cents additional: Wire nails, $2; plain wire, $1.85; painted barb wire, $2.15; galvanized barb wire, $2.45.

A strong tendency is noted to include automobile supplies in hardware stocks in order to supply the large and growing demand for such goods.

TIN PLATE.

The market for tin plates continues strong with a good demand for all grades. Mills are working to capacity and have sufficient business on their books to keep them busy for some time. Prices of raw material are high and mills are experiencing difficulty in securing supplies. Premiums are easily obtainable for prompt shipment. Present prices are firmly held at $4.09 for 100-lb. coke plates f. o. b. New York and $3.90 f. o. b. Pittsburgh. Price f. o. b. Swansea for tin plates is 15s.

American coke tins, I. C., from store, New York:	
Bessemer steel, 107 lbs., 14x20	$4.55@4.60
Bessemer steel, 100 lbs., 14x20	4.40@4.45
Bessemer steel, 95 lbs., 14x20	4.30@4.35
Bessemer steel, 90 lbs., 14x20	4.20@4.25
American charcoal ternes, 8-lb. coating—	
Worcester grades, 14x20, 107 lbs	4.50@4.55
Worcester grades, 14x20, 100 lbs	4.35@4.40
Worcester grades, 20x28, 200 lbs	8.25@8.30
For prompt shipment, f. o. b. mill—	
Coke tins, 14x20, I. C	4.05@4.10
Coke tins, 14x20, 100 lbs	3.90@3.95
Coke tins, 14x20, 95 lbs	3.85@3.90
Coke tins, 14x20, 90 lbs	3.80@3.85
Charcoal terne, 20x28, I. C	7.50@7.55
Charcoal terne, 20x28, 200 lbs	7.20@7.25

Usual differences for odd sizes and weights.

COPPER.

A break in copper prices for both spot and futures in London early this week caused declines to be reported from New York as far as the Metal Exchange was concerned, but the United Metals Selling Company, which handles the copper of such big producers as the Amalgamated Copper Company and Phelps-Dodge & Co., continued its policy of indifference to the situation abroad and the quotations of the metal exchange.

This company still maintained previous quotations and its representatives report the consumption of the metal is in excess of production and that when the demand for the third quarter of the year sets in high prices will prevail in copper.

Extreme fluctuations for this year:

	Highest.	Lowest.
Electrolytic copper, spot	25½	23½
Lake copper, spot	25¾	24
Casting copper, spot	24⅞	22¼
London, spot	£110 15 0	£91 15 0
London, futures	112 0 0	93 10 0
London, best selected	118 0 0	107 0 0

MERCHANT BARS.

Demand for iron bars in the Eastern and Western markets continues heavy, with a good volume moving into consumption. Some good sales are reported in New York on the basis of $1.79½@1.84½ tidewater. Pittsburgh reports a slight falling off in the demand, with quotations at the mills a shade easier.

Steel bars are firmly held and the demand from implement manufacturers continues.

SHEET ZINC.

Demand for sheet zinc continues strong and much business is being done at the recently advanced prices. The commodity is firmly held by leading producers at $8.60 per 100 pounds f. o. b. smelter, with 8 per cent discount. There is no charge for extras.

SHEETS.

The situation is unchanged as far as all kinds of sheets are concerned, mills being still far behind on orders, and new demand being active. Premiums for early delivery are cheerfully paid.

The following prices are for 500-bundle lots and over, f. o. b. mill:

		—Galvanized—	
Gauge.	Net.	Net.	List.
No. 30	$2.85	$4.25	21
No. 29	2.75	4.00	19
No. 28	2.60	3.75	17
No. 27	2.50	3.55	16
Nos. 25 to 26	2.45	3.35	15
Nos. 22 to 24	2.40	3.15	14

PIG IRON.

Inquiries for iron for delivery during the first and second quarters of 1908 continue to be the feature of the market and both in the East and central West inquiries for good-sized quantities have been made during the past week.

Sales were reported in the Pittsburgh market of

malleable Bessemer on the basis of $23.50 valley furnace. Sales for 1908 of a large amount of charcoal iron were reported from Cincinnati, and also a sale of foundry iron for delivery during the first quarter of 1908 at $22 furnace. Sales of 500-ton lots are also reported from the Birmingham district for the first quarter of next year at $18.50. This latter is a pretty sure indication that no break in the prices of pig iron can be expected.

CHICAGO MARKET.

Second Half.

Lake Superior charcoal	$27.50
No. 2 Northern Coke	24.50@25.00
No. 2 Southern	24.35@24.85
Gray Forge, Southern	23.35@23.85

PITTSBURG MARKET.

Prompt Delivery Small Lots.

No. 2 Northern	$25.85
Gray Forge	22.85
Bessemer	24.85
Basic	24.85

Second Half.

Bessemer	$23.85@24.35
Basic	23.85@24.35
Foundry	23.85@24.35
Gray Forge	22.85
Gray Forge, Southern	22.85@23.35
No. 2 Southern	24.85@25.35

BIRMINGHAM MARKET.

No. 1 Foundry, 2nd quarter	$22.00@22.50
No. 1 Soft, 2nd quarter	22.50
No. 2 Foundry, Spot	22.50@23.00
No. 2 Foundry, 2nd quarter	22.00@22.50
No. 2 Foundry, 3rd quarter	21.00@21.50
No. 2 Foundry, last half	20.00@21.00
No. 2 Soft, 2nd quarter	21.00@22.00
Gray Forge, 2nd quarter	19.00@20.00

Rogers, Brown & Co., Cincinnati, will say in their weekly report:

"Sales during the week have averaged well. Some large tonnage has been closed, but as a whole buying has been somewhat quieter than up to the time of our last report. There is continued interest manifested in business for the first quarter and first half of the next year. Business in spot iron shows improvement. Consumption seems to be progressing without any let-up whatever. All available tonnage for this year in regular foundry grades seems to have been contracted for. About all that will be on the market promises to be off grades, or high silicon make, for which the furnaces do not take contracts generally for any extended period.

"Furnaces are in a very secure position and are not forcing business in any way. Large buying of steel rails has given the mills assurance that by the first of July there is every prospect that tonnage placed for 1908 delivery will exceed amount placed for the same period of this year, which on account of the delay in closing this business in the early months of 1907 is very satisfactory.

"Stocks of British iron are reported to be about 400,000 tons the middle of May, as against 785,000 tons the same time last year. With the demand made on English stocks by Germany and America, which demand does not abate in the least, the position of the British iron maker is a strong one. Prices in England have advanced steadily; this, together with the increased freight, makes the imported iron now coming in much more expensive than any time heretofore. Even at this the movement is heavy and prospects are good for a continuance for several months.

"Coke is in better shape than a week ago. There is still much variation in prices and considerable material offered. The week has seen a large number of consumers contract for their requirements covering six months or a year ahead, and probably more of this business has been closed than during any like period since the spring of 1906. In some instances this has resulted in the withdrawal of quotations by the leading makers in the districts interested, as the tonnage closed has been large. Movement is good, but at many points labor is scarce and the output is limited to a third or half of normal manufacture."

Matthew Addy & Company, Cincinnati, will say in their weekly report:

"For a year now the iron business of the country has been done under high pressure. There has never been in the history of the trade such a long-continued period of advancing prices and of a sustained market. We have grown so accustomed to the state of affairs that now exists that we have come to regard it as normal. To-day all the furnace companies in the country have their order books full. As a rule, most of them are somewhat behindhand on contract shipments, and the only iron free to sell for quick shipment is an odd lot now and then, which happens because of its chemical composition or grade, not to apply on orders already taken. A consumer coming into the market and wishing to buy, say, five hundred tons of No. 1 soft or No. 2 foundry, or even Gray Forge, for immediate delivery, would not find it. He would be able to secure a few carloads and that is about all. Furnaces absolutely have no stocks in reserve, and consumers are running along from hand to mouth. Consumption has been steadily increasing since the first of March. Production has also been increasing, but consumption has been keeping ahead in the race, and it does not seem likely that there will be any change for the balance of the year. In fact, this year seems so fixed and certain in this regard that consumers are already much concerned over their iron for next year, and we are having the entirely unprecedented experience of purchasing in May for deliveries to begin in the next January.

"There have been a great many 1908 inquiries this week. Most of them undoubtedly are simply efforts to secure information, but actual business has been done, the prices as a rule being from fifty cents to a dollar under the asking prices for the last half of the year. Of course, there is no denying that buying at the present time for next year is entirely a matter of guesswork; but the strength of the market is amply demonstrated by the fact that consumers are willing to guess so far ahead.

"Coke is unusually active, as is natural, this being the time when a great deal of coke is bought for delivery over the ensuing year."

CHICAGO OLD METAL MARKET.

Clean heavy copper	$20.00
Clean heavy copper wire	20.00
Light copper	18.25
Heavy composition	18.00
Heavy yellow brass	15.50
Light brass	12.00
Yellow borings	13.50
Red borings	16.00
Heavy lead	5.40
Tea lead	4.90
Scrap zinc	4.90
Block tin pipe	37.50
Mixed pewter	29.00
Clean car brasses	18.00
Stereotype	7.25
Electrotype	6.50
Zinc	5.00

Electric motors have worked wonders in mills, docks and mines. All that many a workman needs now is an ear to hear an order, an eye to see an electric button, and a finger to touch it. A boy sweeping a Pittsburg mill floor found his path obstructed by a ten-ton machine. "Hello, Jim," he called to a laborer, "move this machine back about ten feet; I want to sweep under it." Jim did so with a traveling crane, and the boy went on with his sweeping as if nothing had happened.—H. N. Casson, in Munsey's.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x20	$7 20
IX	14x20	8 25
IXX	14x20	9 40
IXXX	14x20	10 65
IXXXX	14x20	11 80
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$8 50
Cokes, 200 lbs	IC	20x28	9 00
Cokes, 216 lbs	IC	20x28	9 50
Cokes 270 lbs	IX	20x28	11 25

PIG IRON.

Lake Sup. Charcoal	$26 00@$26 50
North'n Fdy., No. 1	26 00@ 26 50
North'n Fdy., No. 2	25 50@ 26 00
North'n Fdy., No. 3	25 00@ 25 50
Northern Scotch Fdy	26 00@ 26 50
Ohio Strong Softeners, No. 1	26 30
Ohio Strong Softeners, No. 2	25 80
Southern Fdy., No. 1	23 40@ 25 40
Southern Fdy., No. 2	22 90@ 24 90
Southern Fdy., No. 3	22 40@ 24 40
Southern Fdy., No. 4	21 90@ 23 90
Southern No. 1 Soft	22 40@ 25 40
Southern No. 2 Soft	22 90@ 24 90
Southern Gray Forge	21 40@ 23 40
Southern Mottled	20 90@ 22 90
Southern Silveries, 4 to 6 per cent Silicon	27 40@ 29 90
Jackson Co. Silveries, 8 to 10¢ Silicon	31 40@ 33 40
Ala. and Geo. Car Wheel	28 40@ 28 90
Malleable Bessemer	25 50@ 26 50
Standard Bessemer	25 50@ 26 50
Basic, Pittsburg	22 85

BLACK STEEL SHEETS.

Nos. 11-12 per 100 lbs	$2 60
Nos. 13-14 per 100 lbs	2 65
Nos. 15-16 per 100 lbs.	2 70
Nos. 17-21 per 100 lbs.	2 75
Nos. 22-24 per 100 lbs.	2 80
Nos. 25-26 per 100 lbs.	2 85
No. 27 per 100 lbs.	2 90
No. 28 per 100 lbs.	3 00

GALVANIZED.

Nos. 10-11 per 100 lbs.	$3 15
Nos. 13-14 per 100 lbs.	3 25
Nos. 15-16 per 100 lbs.	3 35
Nos. 17-21 per 100 lbs.	3 50
Nos. 22-24 per 100 lbs.	3 65
Nos. 25-26 per 100 lbs.	3 85
No. 27 per 100 lbs.	4 05
No. 28 per 100 lbs.	4 25

POLISHED SHEET STEEL.

No. 24 per 100 lbs.	$4 90
No. 26 per 100 lbs.	5 00
No. 27 per 100 lbs.	510
No. 28 per 100 lbs.	520

SMOOTH STEEL.

Wood's Smooth, No. 20	$3 05
" " No. 22-24	3 10
" " No. 25-26	3 15
" " No. 27	3 20
" " No. 28	3 30

PATENT PLANISHED SHEET IRON

Patent Planished Sheet Iron. "A" $10 20, "B" $9 20

PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel....8⅝c

SOLDER.

XXX Guaranteed ½ & ½ . per lb.	26½c
Commercial ½ & ½ per lb.	26 c
No. 1 Plumbers	24½c

SHEET ZINC.

600 lb. Casks case, per cwt.	9 50
600 lb. Casks per cwt,	9 50
Sheets per cwt.	10 50

COPPER.

Copper, sheet, 100 lbs. over, base, 22c

TIN PIGS AND BARS.

Banca, pigs, per lb	44c
Straits, pigs, per lb	44½c
Straits in bars, per lb	47c

LEAD.

American Pig	6¼
Bar	7½c
National (White) brands (in less than 100 lb. lots), per lb	8½c

Sheet.

Full coils per 100 lbs.	$9 00
Cut coils per 100 lbs.	9 50

HARDWARE.

ADZES.

Carpenters'.

Plumbs	40&10¢

Coopers'.

Barton's	20¢
White's	15¢

Railroad.

Plumbs	40&7½¢

Ship.

Plumbs	40¢
White's	12½¢

AMMUNITION.

Caps, Percussion—per 1,000.

F. L. Waterproof, 1-10s	40c
G. D.	35c
Musket	60c

Cartridges.

Winchester Rim Fire Ctgs	50&33¢
Winchester Cent Fire, Pistol and Rifle	25&3¢
Winchester Cent Fire, Military and Sporting Ctgs	15&8¢
Winchester Blank Ctgs. 22 cal.	$1 25
Winchester Blank Ctgs. 32 cal., C. F.	4 00
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8¢

Primers.

Berdan Primers	$1 00
Winchester Primers	30¢

Shells.

New Rival Empty Paper Shells, 10 and 12 gauge	25¢
New Rival Empty Paper Shells, 16 gauge	20¢
Repeater Empty	20¢
Leader Smokeless	25¢
Winchester Repeater Loaded Shells	40&5¢
Winchester Leader	40-10&10¢
New Rival Loaded Shells	12½ & 11¢

Gun Wads—per 1,000.

Winchester Gun Wads	15¢

Powder.

	Each
DuPont's Sporting, kegs	$ 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs.	11 3
" " 12½-lb. kegs	5 80
" " 6¼-lb. kegs.	2 97
" " 1-lb. cans	15

Shot.

Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 95
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 20
Buck Shot, 25-lb. bags, per bag	2 20
Chilled Shot, 25 lb. bags, "	2 20

ANCHORS.

Expansion Screw Anchors	10¢

ANVILS.

Trenton, 70 to 80 lbs.	9½c per lb
Trenton, 81 to 150 lbs.	9½c per lb

ASBESTOS.

Board and Paper	25¢

AUGERS.

Boring Machine	70¢
Irwin's	40&10¢
Carpenters' Nut	70¢
Hollow.	
Bonney's—list $30.00	75&5¢
Stearn's, No. 3	36 00
Post Hole.	
Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40¢
Vaughan's, 4 to 9-in., per doz.	6 25
Rafting.	
Snell's	50&5¢
Ship.	
Ford's, with or wi'out screw	40-12½¢
Snell's, " " "	40-5¢

AWLS.

Brad.	
No. 3 Handled per doz.	$0 40
No. 1050 Handled "	80
Shouldered, assorted, 1 to 4, per gro.	1 20
Patent asst'd, 1 to 4 "	85
Harness.	
Common "	95
Patent "	90
Peg.	
Shouldered per gro,	$1 20
Patent "	60
Scratch.	
No. 1, handled "	4 80
No. 15, socket handled. per doz.	1 25
No. 7 Stanley "	1 80
Sewing.	
Common per gro.	90
Patent "	90

AXES.

Boy's Handled.	
Lippincott, 3 lb per doz.	$5 25
Falls City "	5 25
Broad.	
Plumbs, West, Pat	40-2½¢
" Can. Pat	40-7½¢
" Firemen's (handled). per doz	$18 75
Plumbs, Miners (handled) "	6 75
Single Bitted (handled).	
Gladiator 3 to 4 lbs., pr dz.	$11 00
Flint Edge " " "	9 25
Standard " " "	9 25
Elec. Chopper, Forest Clipper	10 50
Perfect Premier " "	10 00
Crown " " "	7 00
Single Bitted (without handles).	
Gladiator 3 to 4 lbs. per doz.	$8 25
Flint Edge " "	6 75
Standard " "	6 75
Electric Chopper " "	8 00
Perfect "	7 50
Crown " "	6 00
Double Bitted (without handles).	
Gladiator 3 to 4 lbs. per doz.	$11 25
Flint Edge " "	9 50
Perfect " "	10 75

The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's	50¢
Pelouze	30¢

BARS, CROW.

Pinch or Wedge Point cwt.	$3 25

BASKETS.

Clothes.	
Small Willow per doz.	$6 25
Medium " "	7 25
Large " "	8 00
Galvanized Iron. ½ bu. 1 bu. 1½ bu	
Per doz.	$4 75 6 50 8 00

BEATERS.

	Per doz.
Carpet.	
No. 10 Coppered Spring Wire	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	95
Egg.	Per doz
No. 50 Imp. Dover	$0 70
No. 102 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65¢
Hand.	
8 inch per doz.	$7 50
10 inch "	9 50
Moulders'.	
12 inch "	11 00

BELLS.

Call.	
3 in. Nickeled Rotary Bell, bronzed base per doz.	$5 00
Cow.	
High Grade	60&10¢
Kentucky	70&10¢
Door.	Per doz.
New Departure Automatic	$6 00
Rotary.	
2 in. Old Copper Bell	4 00
3 in. Old Copper Bell, fancy	6 00
3 in. Nickeled Steel Bell	4 50
3½ in. Nickeled Steel Bell	5 00
Hand.	
Hand Bells, polished	50¢
White Metal	50¢
Nickel Plated	40¢
Swiss	40&10¢
Silver Chime	33½¢
Miscellaneous.	
Church and School, steel alloy	50&10¢
Farm, lbs. 40 50 75	100
Each $1.25 1.60 2.25	2.85

BEVELS, TEE.

Stanley's, rosewood handle, new list	25¢
Stanley's iron handle	35¢

BINDING, OILCLOTH.

Zinc	80¢
Brass	70&10¢
Brass Plated	75&5¢

BITS.

Auger.	
Extra Double Spur	70&10¢
Ford's Car and Machine	40&12½¢
Triumph	50&5¢
Ford's Ship	40&12½¢
Irwin	50&5¢
Russell Jenning's	35&10¢
Clark's Expansive	50-10&5¢
Steer's " Small list, $22.00	25¢
" " Large " $36.00	25¢
Irwin Car	45¢
Ford's Ship Auger pattern Car	40&12½¢
Center	40&10¢
Countersink.	
No. 18 Wheeler's per doz.	$1 25
No. 20 " "	1 75
American Snail head. "	75
" Rose " "	90
" Flat "	75
Mayhew's Flat "	1 25
" Snail "	1 25
Dowel.	
New Jennings	40&10¢
Gimlet.	
Standard Double Cut	60¢
German Pattern per doz.	$0 60
German "	65
Gouge "	80
Spoon "	80
Countersink "	1 00
Reamer.	
Jenning's Square "	2 50
Standard Square "	75
German Octagon "	75
Screw Driver.	
No. 7 Common "	50
No. 1 Triumph "	1 25
No. 2 " "	1 50
No. 340 Shepardson's "	1 25
No. 1 Smith's "	1 25

BLACKING, STOVE . (See Polish

BLADES, SAW.

Butchers'.
Standard ⅞ & 1½ in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each $1 50
Hack.
Disston's.....35&5%
Flexible.....33⅓&5%
Star.....30&5%
Wood.
Jackson's .....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph 3 50
Forest Clipper..... 3 0

BLOCKS.

Snatch.
Wooden .....60&10%
Steel 50%
Tackle.
Iron Strapped.....70&10%
Com. Steel.....60&10%

BOARDS.

Stove.....40%
Wash.
Globe, single.....per doz. $3 15
" double..... " 3 65
Magnolia ..... " 3 85
Crystal Glass..... " 4 35
Brass King..... " 4 50
Nickel Plate ..... " 4 15
Enamel King..... " 4 35

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 60
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated. " 1 10
No. N30, nickel plat'd " 1 30
No. N31, " " " 1 85

BOLTS

Carriage, Machine, Etc.
Carriage ⅝x6 and sizes smaller and shorter.....70&5%
Carriage, sizes larger and longer than ⅝x6.....60%
Machine, ⅝x4 and sizes smaller and shorter.....70&10%
Machine, sizes larger and longer than ⅝x4.....60&5%
Elevator.....50-10&5%
Plow.....60&10%
Stove .....85&10%
Tire .....75&5%
Wagon Box Strap 70%
Mortis Door.
Gem, iron.....60%
" bronze plated.....20%
Barrel.
Cast.....60%
Wrought.....
" Bronzed.....50%
Flush.
Wrought .....50&10%
Spring.
Wrought .....
" Heavy .....
Square.
Cast.....50&10%
Wrought.....

BORERS.

Angular.
Miller's Falls.....per doz. $13 00
Bung.
Doz.
Enterprise Mfg. Co.'s No. 1....$14 00
" " " No. 2.....18 50

BOXES.

Mail, No.... ..... 1 2 10
Per doz..... $3.50 5.50 17.50
Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's .....each $1 50

BRACES.

Barber's .....50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108 .....$3 50
" No. 08 ..... 2 75
" No. 010 ..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $9 00
" No. 2 " 9 60
Shelf.
Cast Iron, Bronzed 50, 10, 5%
Griffin Wrought Steel..... ....75%
" Folding 70%

BROILERS.

Wire..... .....70%
No. Cwren, Self-Basting, 30

BUCKETS.

Pump Rubber.
Wychoff.....per gr. $4 75
Cooper..... " 4 7
Champion ..... " 7 50
Victor ..... " 9 25
Star..... " 5 00
IXL ..... " 6 75
Well.
Galv'd Qts..... 10 12 14
Per doz..... $2.90 $3.25 $3.40
Wooden, top ear, plain, per doz 4 00
" " swivel " 5 10

BUCKS, SAW.

Folding .....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....15%
Tinners' Iron Burrs only.....70%

BUTTS.

Cast Iron.....70&5%
Wrought Brass (New List).....30%
Wrought Steel Bright.
Wrought Steel, Japanned.
Nos. 751 an 70%

IPERS.

Double.....65&5%
Inside and Outside.....65&5%
Wing.....70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M.....$3 75
Toe.
Shoenberger.....per ℔ 5 c
Bessemer ..... " 4½c
American ..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons 20 30 40
Each $4.25 $5.00 $6.25
Milk.
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz..... $26.00 $27.00 $29.00
Chicago Pattern.
Nos..... 105 108 110
Per doz $20.00 $22.50 $24.00
Iowa Pattern.
Nos..... 408 410
Per doz $24.50 $25.50
New Elgin Pattern.
Nos..... 705 708 710
Per doz..... 27.00 $29.00 $30.50
Burn Pattern.
Nos..... 700 701
Gals 8 10
Price $2.40 $2.65

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each $3 50
Diamond, Sling..... " 6 50
Myers' Imperial..... " 3 50
" Clover Leaf..... " 3 65

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed .....60&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll s No. C.....per doz. $4.25
Wildermuth's
Nos..... 1 2 3
Per doz..... $5.60 $5.75 $6.25
Nos..... 4 5 6
Per doz..... $6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs $5 75
With Covert snaps. " 5 00
With slide..... " 3 25
Without slide..... " 2 85
Bright Ox Chains.
⅝in. $7.25; ¾ in. $5.45 per 100 lbs.

Cable Coil Chain.
Inch..... 5/16 ⅜ 7/16 ½
Per 100 lbs..$10.90 $8.00 $7.00 $6.20
Inch..... 9/16 ⅝ ¾ ⅞
Per 100 lbs.. $6.00 $5.90 $5.75 $5.65
Inch..... ⅞ 1 1¼
Per 100 lbs.. $5.55 $5.55 $5.65
Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil
Cow Tie Chains.
American 3 toggle.....50&5%
" toggle and snap...50&5%
" open & closed ring, 50&5%
Halter Chains.
American, new list.....33⅓%
German.....50&10&5%
Niagara, new list.....40&5
Brown's, " 40%
Picture Chains.
Light Brass, 3 ft.....per doz. 55c
Heavy Brass, 2 ft..... " 90c
Pump Chain.
Galvanized, per 100 lbs.....$5.50
Safety Chain.
Brass.....60%
Special Steel Loading Chain.
Inch..... ⅜ 7/16 ½
Per 100 lbs... $16.00 $12.50 $12.50
Stretcher Chains.
7/16 in. $6.50; ½ in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's.....70&10%
Trace Chains.
Western Standard.
6½— 6-2..... ...per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1 ..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 3c " for Twist Link.
Wagon Stay Chains.
Inch..... ⅜ 7/16 ½
Per 100 lbs... $6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gross 75c
Red..... " 65c
White..... " 55c
Common White Sch'l
Crayon..... 8c

CHARCOAL

In bags .....per bag 90c

CHECKS, DOOR.

Blount 33⅓%
Sargent's 33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box,
Inches..... 10 12 14
Round, per doz. $2.10 $2.25 $2.75
Flat " 2.85 3.60 4.20
Cold.
Good quality, ½ in. and larger.....per ℔ 12c
Smaller size per doz.
Socket, Framing and Firmer.
Barton's.....30%
Tanged, Firmer.
With handles.....30&5%
Choppers, See Cutters, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood, Gal.. 5 7 10
Each.....$3.90 $4.60 $4.85
Belle, Barrel 65-7½%
Common Dash, Gal.. 4 5 6
Per doz.....$7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each..... $3.65 $3.90 $4.75

CLAMPS

Adjustable.
Martin's.....30%
Carpenters'
Steel Bar..... ....25%
Hose.
Sherman's, brass, ¾ in., per doz..33c
Double, brass, ¾ in., " 65c
Saw Filers.
Disston's list, $30.00.....30%
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1 $3.00; No. 3 $7.50

CLAWS, TACK.

Cast, wood hdle.....per doz. 45@60c
Forged steel, wood hdle $0.80
Solid Steel..... " 1.60
Giant..... " .90

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%
Pot.
Wire..... per doz. $0.85
Side-walk.
Steel..... per doz. $6.25
XLCR.....65&5%

CLEAVERS.

Family.
Griffin, In..... 6 7 8
Per doz..... $5.50 $5.75 $6.25
Royal.....per doz. 2 25
Butchers.
Beattys, Kitchen.....40%

CLEVISES.

Malleable ....5c ℔

CLIPPERS.

Bolt.....$1.90@$4.75

CLIPS.

Axle.....55&5%
Damper.
Standard.....per doz. 65c
Troy..... " 35c
Hame..... " 17c

CLOTH.

Emery.
Star..... .....50%
B. & A.....50%
Hardware Wire—full rolls (100 ft.)
3 to 8 mesh black, per 100 sq. ft..$3
9 to 12 " " " " 2
2 to 3 incl., Galv.—in full roll...3 75
4 and 5..... " 4 00
6 ..... " 4 25
7 and 8 ..... " 4 75
Screen Wire.
12 mesh, painted, per 100 sq. ft.. 1.35

COCKS AND FAUCETS.

Compression Plain Bibbs.....60%
Lever Bibb Cocks..... .....60%
Compression Hose Bibbs.. 50-10&5%
Telegraph Faucets (new list)...50-5%
Racking Cocks (new list).....60%
Compression Lock C'ks(n'w list)..70%
Andrew's Brass Faucets 70%
Angle Plug Faucets, per doz....$0.85
Milk Can Faucets, per doz...$2.60-4.90
Petroleum Faucets 75%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin....per gro. $1.90 $2.40 $3.50
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass " 3.00 3.50 4.25

COMBS, CURRY.

Nos 000 11 15 39 89 108
Per doz. $0.37 .60 1.90 .90 1.15 .80
Nos 290 320 390 532 620 1400
Per doz. $1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

Carpenters'.....60-10-10%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 ℔.....per ℔ 41c
1½ ℔.....33c 2 ℔.... " 37c
3 ℔ and larger..... " 34c

CORD.

Picture.
White Wire (new list) 80-10-10%
Sash.
Baltic Braided Flax.....per ℔
Silver Lake, white 7-32 in. "
" " " 8-32 in. "
Keystone .....8-32 in. " 26½c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&30%

COUPLINGS, HOSE.

Brass.....per doz. $
Brass Plated..... " .35

COVERS, WAGON—See Tents

CRADLES, GRAIN.

Morgan's Grapevine ... per doz. 23

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.25

CUTTERS.

Glass.
Red Devil 45%
Smith & Hemenway Co. 50%
Woodward 40%
Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42 ..... 25%
No. 202, list, $1.50 ea. ..... 40&7½%
Pipe.
Stanwoods... No. 1 2 3
Each $0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout ..... per doz. $9 75
1-knife Slaw ..... " 1 65
2-knife " ..... " 2 25
Washer ..... " 7 75

DAMPERS, STOVE PIPE.

Standard ..... 50&10%
American ..... 45&10%

DIES AND STOCKS

Discount ..... 40&5%
King's, Little Giant 33⅓%

DIGGERS.

Post Hole.
Acme ..... per doz. $ 9 25
Atlas ..... " 9 00
Eureka ..... " 7 50
Hercules ..... " 10 25
Iwan's Split Handle .. " 7 50
Iwan's Perfection ..... " 9 00
Iwan's Hercules pattern " 10 00
Ryan's ..... " 17 00
See also Augers—Post Hole.
Dividers, Wing ..... 65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $7 93
1⅛ in. " " " 9 50
1⅛ in. 3-panel natural pine, fancy ..... per doz. 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock ..... 60&10%
Blacksmith's Twist 60%
Breast.
Common ..... each, $2 25
Millers Falls ..... " 3 10
Hand
Goodell's Automatic.
Nos. 01 02 3 20
Per doz. .$7.75 $12.50 $12.50 $11 00
Goodell's Single Gear per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's ..... per doz. $16 50
Bit Stock.
Standard List... 60&5%@60%@10%

DRIVERS, SCREW.

Standard ..... 65&10%
Lock Ferrule 60%
Champion 50%
" Pattern 70%
Clark's Interchangeable 30%
Edison 60%
Reed's Lightning ..... 45&5%
Goodell's Spiral ..... 50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral ..... 50&10%
Smith & Hemenway Co. ..... 40&5%

EAVES TROUGH. GALVANIZED.

Territory. L. C. L.
Eastern. ..... 70&30%
Central ..... 75&10&2½%
Southern ..... 75&7½%
Western ..... 75&7½%
S. Western 75%
Terms, 2% for cash. Factory shipments generally delivered.
See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.75 $1.10
Plan'd " 1.80 2.00 2.65
Corrugated Conductor.
Discount 80%
Corrugated Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.80 $1.30
Pol'd " 1.30 1.40 2.10
Plan'd " 2.00 2.20 3.00
Four-Piece Stove.
Inches 5 6 7
Smooth. per doz. 0.60 $0.65 $0.95
Planished " 1.40 1.70 2.35

EMERY CLOTH—See Cloth.

EMERY, TURKISH.

Size ..... 5-lb. pkgs. ¼ kegs, kegs
No. 60 to 150, per lb. 6c 4c 4c
Flour ..... " 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans ..... per doz. 1 65
Peerless 1 25

EXTRACTORS. PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W
Drifting Pick ..... 60, 10&5%
Hooks and—
Brass ..... 50&10%
Iron 70%

FASTENERS, STORM SASH

Schroeder's ..... per doz. 85
Sensible 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta 70%
Disston's ..... 75&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior ..... per doz. $4 75
Whisson's Imp ..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel, New List ..... 65&10%
Wood, 4 tines, per doz. $5.00
Coal, Coke, Cottonseed ..... 33⅓&5%
Hay.
2 tine ..... 60&10%
3 " 65%
4 " ..... 65&7½%
Digging 70%
Scoop 33⅓%
Header.
3 tine 65%
4 " 65%
Manure.
4 tine ..... 60&10%
Ore 40%
Spading.

FRAMES.

Hack Saw.
Union ..... per doz. $5 75
Jenning's adj. ..... " 7 50
Cast ..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts. 1 2 3 4 6
Each $1.10 1.30 1.50 1.80 2.30
Qts. 8 10 12 15
Each $2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform... each $19 10
25 qt., " " " 22 60
25 qt., Sampson Power. " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Cream Pail.
Fairmont ..... per doz. $3 75
Marking, Mortise, etc. .....
..... 50&10%
Saw.
Wire.
Disston's 25%

GIMLETS.

Discount ..... 35@40%

GLASS, WINDOW.

First two brackets ..... 90&5%
Above " " 90%

GLASSES, LEVEL.

GLUE.

Bulk.
B Amber ..... per lb. 12 c
A White ..... " 15 c
H. S. Amber ..... " 18½c
Liquid.
Army & Navy 40%
Le Page's—
List "A" 37½%
List "B" 33⅓%
List "C" 25%

GOODS.

Bright Wire ..... 35&15%

GREASE, AXLE.

Wood Boxes.
Diamond ..... per gro. 5 50
Frazer's 9 50
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross $9 50
3 lb. per gross 25 00
5 lb. per gross 37 00

GRIDDLES.

Soapstone 50%

GRINDSTONES.

Family.
Inches 7 8 9
Per doz. $8.25 9.00 10.50
Loose.
Per ton ..... $20 00@$21 00
Mounted.
Ball Bearing 1 2 3
Each $3.15 3.00 2.85
Common Bearing .. 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common ..... per doz. $0 19
Peg.
Common ..... " 22
Patent, plain top .... " 47
" leather top... " 52
Sewing.
Common ..... " 22
Patent ..... " 52

HALTERS.

Jute Rope ..... per doz. $0 85
Sisal Rope ..... " 1 85
Web ..... " 1 75
Leather, rope tie ..... " 7 50
" leather tie .... " 10 00

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs ..... 60&5%
Engineers'.
Plumbs ..... 60&5%
Farriers'.
Plumbs ..... 40&12½%
Machinists'.
Plumbs ..... 60&5%
Nail.
Plumbs ..... 40&7½%
Quaker City ..... per doz. $3 50
Cast ..... " 1 15
Maydole's ..... 30&5%
Riveting.
Plumbs ..... 40&12½%
Shoe.
Cast ..... per doz. 75c
Tack.
All Iron ..... per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid ..... " 1 55
Magnetic 1 2 3
Per doz 70c 80c $1.00
Magazine ..... per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs ..... 75&5%
5 lbs. and over ..... 75-10&5%
Masons'.
Single & Double Face ..... 75&5%

HANDLES.

Auger.
Common Assorted ... per doz. $0 38
Peck's Adjustable ... " 2 10
Ives' " ... per set 1 35
Axe 60%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged Firmer, Assorted, 29c; large, 38c per doz.
Applewood Socket, Firmer, Assorted ..... per doz. 24c
Coal Pick ..... 50&10%
Drifting Pick ..... 50&10%
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye ..... per doz. 40c
Blacksmiths' ..... per doz. 40c@70c
Machinists' ..... " 45c@70c
Hatchet ..... per doz. 40c
Hay and Manure Fork 30%
Hoe and Rake 30%
Jar
Plain ..... per doz. 75c
Varnished ..... " 80c
Screw Driver.
Assorted ..... " 37c
Large ..... " 48c
Shovel and Spade 33⅓%

HANGERS.

Barn Door.
Challenge ..... 60&10%
Peerless ..... 70&10%
Silver Star ..... 60&5%
Storm King ..... 60@5%
World's Best 50%
Wagner's Adjustable ..... 70&10%
Warehouse 60%
Griffin ..... 70&10%
Conductor P
Griffin ..... 70&10%
Iwan's Perfection 50%
Eave Trough.
Baker's ..... per gro. $2 25
Imperial 20%
Wire 33⅓%
Parlor Door.
Acme ..... per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard ..... " 3 50
" New Model ..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards' ..... 40-10&5%

HASPS.

Hinge, Wrought 40
With Staples—See Staples.

HATCHETS.

Crown ..... 50-10&5%
Cast Claw ..... per doz. $1 20@1 45
Cast Shingling .... " $0 95@1 20
Germantown 40%
Plumbs ..... 33⅓&5%
Underhill's Star Lath ..... 40&10%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1 .... per doz. $ 9 00
" No. 2 .... " 9 00

HINGES.

Blind.
Clark's Gravity ... per doz. sets 95c
Parker's 65%
Shepherd's Noiseless, for Wood casing ..... per doz. 1 05
Gate.
Clark's 1 2 3
Hgs & Ltch .... doz. $2.50 2.90 4.00
Hinges only .... " 1.90 2.20
Latches only... " .70 .75
Knuckle ..... per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 50
Spring.
American 30%
Chicago ..... 25&5%
Columbia Dbl. Acting .... 40&10&5%
Gem 25%
Ideal Detachable .... per gro. $11.10
Matchless 30%
New Idea ..... per gro. $8.40
Oxford 30%
Wrought Iron.
New Lists .....
Griffin.
Light Strap Hinges 60%
Heavy Strap Hinges 65%
Light T Hinges 55%
Heavy T Hinges 45%
Extra Heavy T Hinges 60%
Cor. Heavy Strap 70%
Cor. Ex. Heavy T ..... 65&10%
Screw Hook and Strap.
6 to 12 in ..... per 100 lbs. $3 75
14 to 20 in ..... " " 3 65
22 to 36 in ..... " " 3 40
Screw Hook and Eye.
⅝ in ..... per 100 lbs $6 75
⅞ in ..... " " 7 75
⅛ in ..... " " 9 75

HOES.

Garden ..... 70&10%
Grub.
Extra 70%
Hazel ..... per doz. $5 00
Ladies' and Boys' 75%
Mortar ..... 75&10%
Planter's Eye 62½%
Weed ..... 75&15%

HOLLOW WARE—See Ware

HOOKS.

And Eyes.
Brass ..... 50&10%
Iron ..... 65&10%
Awning ..... per gro. $1
Belt.
Brown s ..... 70&5
Jones' ..... 65&5
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's, per doz. 2 50
(See Goods, Bright Wire.)

Bush.
Common Axe Handle.per doz. $7 00

Chain.
Inch... ¼&5/16 ⅜ 7/16 ½
Per 100 $7.60-8.10 9.75 11.50 13 00

Clothes Line.
Japanned.....per doz. 22c@24c
Galvanized..... " 40c

Coat and Hat.
Cast Iron .....per gro. 72c@$1 50
Gem Wire.....70¢

Conductor.
Malleable.....50&10¢@50&10&5¢
Wrought .....40&10¢@50¢

Corn.
Common, unpolished, per doz. $1 35
" polished.... " 1 80
Cut Easy"..... " 2 75

Cat.
See Goods, Bright Wire.

Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 2 75

Hammock.
With Plate.....per doz. 50c
With Screw..... " 45c

Lambrequin, or Drapery, per gro. 21c
Picture .....50¢@50&10¢
Potato and Manure.....70&12½¢
Screw.
Brass.....80&5¢
(See Goods, Bright Wire.)
Seat Spring.....per ℔. 5½c

HOOPS, TUB.

Elastic.....per case of 2 doz. $1.50

HOSE, GARDEN.

Coupled per ft.
Heron-3ply-¾" guar. press. 55 lbs. 7½c
Crane " " " 75 " 8½c
Falcon " " " 95 " 9½c
Eagle " " " 120 " 10½c
Condor " " " 150 " 11½c
High Test " " " 200 " 12½c

COTTON COV. RUBBER HOSE

High Grade-¾"-guar. press. 400 lbs. 11½c
Special " " " 300 " 9½c
Leader " " 100 " 7½c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz..... $2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro..... $5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro..... $3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45

Brinkerhoff's.
Per gro.....$14 40

Clark's
Nos..... 1 63 200 400
Per doz.....$0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 1.50 1.25 1.25
Nos..... A AB F
Per doz.....$2.00 $4.25 $2.50

IRON.

See Metals—First column.

IRONS.

Curling.
X.....per doz. $0 40
Y..... " 50
Z..... " 58
Jewel..... " 85
Imperial ..... " 1 00
Pinking ..... " 70

Plane.
Wood Bench.....20&5¢

Sad.
Charcoal .....per doz. $11 00
Common, Polished, per 100 ℔. 4 50
" Nickel plated, " 5 25
Chinese Polishing.....per doz. 7 40
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise...per set 86c
No. 55 J, " ... " 83c
No. 50 T, " ... " 91c
No. 55 T, " ... " 88c
No. 50, Howells..... " 86c
No. 55, " ..... " 90c
Tailors' Sad.....per ℔. 5½c
" Geese ..... " 5½c

Tuyere.
Single Duck Nest....per doz. $5 25
Double " " ..... " 6 25
Sutton .....each 2 00

JACKS.

Locomotive..... 70¢

Wagon.
Oliver
Nos 0 00
Each..... $0.60 $0.85
Standard.
Nos..... 1
Each..... $0.60 1.00
Wilcox.
Nos..... 1 2 3
Each.....$0.85 1.20 2.00

KETTLES.

Brass.....15¢
Cauldron .....40&5¢
Copper.....per ℔. 27c
Maslin .....65¢
Sugar .....50¢

KNIVES.

Best Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
California.....3 40

Cooper's Hoop.....15¢

Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25

Drawing.
Standard .....70¢
Adjustable.....15¢
Barton's Carpenters'.....10¢
Folding Handle.....25&5¢

Hay.
American, Sickle Edge..doz $10 50
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 00
Iwan's Sickle Edge..... " 9 50
Iwan's Impv'd Serrated.. " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point " 8 50

Hedge.
Challenge ....per doz. $6 00
Disston's..... " 2 75

Mincing.
Common, Single 40
" Double ..... " 50
Streeter, 4 Blade..... " 1 30
" 6 Blade..... 2 00

Putty.
Common..... " 60@1 00
Lander's..... per doz. $1 40@1 75

Scraping.
Beech Handle.....75@1 00
Lander's.....$ 25@6 00

KNOBS.

Door.
Mineral .....per doz. $0 75
Porcelain ..... " 83
Jet..... " 83

LADDERS.

Common Long.
Per ft .....9c@14c

Extension.
Per ft 12c

Step.
Common, per ft.....6½c
" with Shelf, add 10c.
Keystone.... ....15c
Triumph, per ft 20c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light.....per doz.$6 00
2½-in. Regular..... " 4 00
3-in. Regular..... " 5 00

Tubular.
Buhl.....net prices

LEADERS, CATTLE.

Nos 1 2 3
Per doz.....$0 55 $0 70 $2 75

LEATHER, LACE.

Cut.....22½¢

Sizes.
Ex. Quality.....per sq. ft. 27c

LEATHERS, PUMP.

Valve and Plunger .....10¢

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
" Nickeled. " 5 00

Transom.
Payson's.....80¢

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos..... 4 6 7 8 9
Per gross $1 50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....23c 25c 31c 35c
Masons in 100-ft. hanks..doz... 80c

Clothes.
60-ft. Jute.....per doz. $0 95
72-ft. " ..... " 1 15
60-ft. Sisal ..... " 1 40
72-ft. " ..... " 2 15
50-ft. Cotton ..... " 1 15
50-ft. Braided Cotton. " 35

LINING, STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright.... "	2 60	4 00

Leather Riveting.
Chicago, Pomeroy....per doz. $0 00
Excelsior ..... " 2 00
Handy ..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 20

Washing
Winner.....per doz. 54 00
Keystone ..... " 54 00
U. S. Steel..... " 60 00
Advance, f.o.b. Chic'go " 24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ...per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 85
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 40

Tinners'.
Applewood ..... " 1 70
Hickory..... " 75@1 15
Hickory Sheet Iron.. " 1 20

MATS.

Door.
National Rigid.....50, 10&5¢
Acme Steel Flexible.....33⅓¢

Stove.
No. 2. .....per gross. $3.25
No. 1. ..... " 3.50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1.10
No. 2 Asbestos Toasters, with ring.....per doz. .60

MATTOCKS.

Plumbs.....70¢
Extra .....60¢

MAULS.

Iron. lbs. 10 13 16 1
Per doz. $4.00 4.50 5.25 5.60
Wood face, lbs. 10 12 14
Per doz $5.00 5.50 6.00

Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10¢

MEASURES.

	½ pk.	1 pk.	bu
Galvanized. per dz.	$2.25	$3.00	$3.85
Japanned... "	1.75	2.45	3.15

MICA.

First Quality.....15¢
Second Quality.....20¢

MILLS, COFFEE.

Enterprise .....25¢
Parker.....40 12½&2½¢
Arcade .....40-12½&2½¢

MITRE BOXES.

See boxes.

MOPS.

Erie.....per doz. $3 15

Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen...$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Ball-Bearing.
Inches..... 14 16 18 20
Each $6.25 6.75 7.25 8.00

Cheap Grades.
Inches..... 12 14 16 18
Each $2.25 2.25 2.35 2.50

Clipper .....50, 10&10¢

Yale.
Inches..... 4 16 18 20
Each.....$3.50 3.75 4.00 4.35

Philadelphia.
All Styles Except A & E 60, 10&10¢
Style A.....50&10¢
Style E, High Wheel.....60,10&10¢
Drexels.....40¢
All Day.....Net Pric

NAILS.

Cut Steel.....rates, $3 50
Cut Iron.....2 60

Wire.
Small Lots.....$2 35
Carload " 2 25
Cement Coated..... 2 10

Horse Shoe.
Ausable .....55&5¢
Capewell .....15¢
Perfect .....55&5¢
Putnam. .....20-5¢
Star.....35&5¢
Clover Leaf.....per lb. net, 10½c

Picture.
Brass Heads.....25¢

Brads.....85¢

Furniture 20

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized before Weav'g. ..80&10¢
" After Weaving ....80&5¢
Cut Pieces.....65&5¢

NIPPERS.

End Cutting.
Stubb's Pattern. Ins. 5½ 6
Per dozen $4.00 $4.25

End and Diagonal Cutting.
Swedish Side.....75¢
Utica Drop Forge & Tool Co...60¢

Hoof.
Heller's .....40&10¢
V. & B.....55-5¢

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 15
Magic..... " 3 50
Mystic..... " 3 90

NUTS, HOT PRESSED.

Square Blank.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝
℔. 9½c 8c 6½c 5½c 5½c 5c 4½c

Square Tapped.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝ ¾
℔. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5 lb. boxes add ½c per ℔. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60¢
Zinc..... ....60¢

Engineers'
Cannon .....55¢
Tin.....per doz. $2.00@$2.25

Machine.
Common .....per doz. $0 50
Copper Plated Steel.. " 85
Malleable Iron.....60, 10&5¢
Jappaned.....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat...per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75

Can.
Delmonico.....per doz. $1 20
Never Slip..... " 0 85

rate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. $11 00
Economy..... " 4 85
Family..... " 9 75

PADLOCKS.

Standard Wrought .....70&5¢
Champion .....50¢
Eureka.....40, 10&5¢
Yale .....60&5¢

PAILS.

Cream.
14-qt., without Ga....per doz. $2 50
20-qt., " " .... " 3 00
20-qt., with Gauge.... " 3 50

Sap.
10-qt., Galvanized..per 100.. $13 00
12-qt. " " .. 14 50
14-qt. " " .. 16 25
16-qt. " " .. 17 75
10-qt., IC Tin..... " .. 10 25
12-qt " " .. 11 75
14-qt. " " .. 13 00
10-qt., IX Tin..... " .. 12 75
12-qt. " " .. 16 00
14-qt. " " .. 17 00

Stock
Galvd. qts. 14 16 18 200
Per doz.....$3.75 4.00 4.75 5.25

Water.
Galvanized, qts 10 12 14
Per doz $1.95 2.20 2.45

Wood.
Cable, 2-Hoop..... .per doz. $1 70
" 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 60
" 3-Hoop..... " 1 80

PANS.

Dripping.....60&5¢

Fry.
Common.....75&10¢
Acme.....70¢

Roasting.
Paxton.
Nos..... 1 2 3 4
Per doz.. $4.75 $5.75 $6.50 $7.50
Neverburn.. 4.00 4.50 5.50 6.
Savory No. 200 .....per doz 8.

PAPER.

Building.
Plain .....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 65
No. 20, Red Rosin.....pr roll 40
No. 30, Red Rosin ..... " 55

Sand and Emery.
Star.....low list..50¢
B. & A.....50¢

Wrapping
Drab Floor.....per ℔
Rag.....

PARERS

Apple.
Bay State.....per doz. $13 00
Turntable ..... " 00
White Mountain .... " 4 75
Reading..... " 6 50

Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore 70%
Drifting and Poll Picks.....70%
Plumbs Railroad 70%
Surface.....70%

PINCERS.

Carpenters', cast steel.

In.	6	8	10	12
Per doz.	$1 80	$2 40	$2 80	$3 50

Blacksmith's 45%
Heller's 40%

PINS.

Clothes.
Common.....per box of 5 gro. $0 52
Hoyt's..... " " 31
U. S..... " " 70

Picket.
Fluted 15 in.....per doz. $0 70
" 21 in..... " 1 60
Spiral 1 90

PIPE.

Conductor.
Territory.
Eastern.....70%
Central.....65&10%
Southern.....65%
Western.....68%
Southwestern..... 50-25&2½%

Lead.
Full coils.....per ℔. 7½c
Cut " ..... " 7½c

Stove.

Acme—In.	5	6	7
Smooth, per jt..	8½c	9½c	10½c
Planished " ..	32 c	33 c	43c
Peerless—Smooth.	7½c	8 c	9½c
Polished	14½c	15½c	18c
Plan'hed	28 c	31 c	35½c

Made-up—In.	5	6	7
Smooth	7½c	8c	9½c

7 to 6 in. Smooth Tapers, pr jt..13c
6 in. Smooth T's..... ..27c
7 to 6 in. Planished Tapers.....45c

Yale Patent Lock Pipe—Stove.

	5"	5½&6"	7"	7 to 6"
Battle Ax Blue Smooth Steel.	6	6½	7½	8
Double Lock Peerless Blue Smooth Steel.	6½	7½	8½	8½
Can't Slip Blue Smooth Steel.	6½	7½	8½	8½
Duplex Polish'd Blue Smooth Steel.....	8½	9½	10½	10½
Yale Russia Fin	15½	16½	17½	17½
Plan'h'd Duplex	29½	30½	37	38
Galvano, Galvanized Iron..	15	16	17	17½

(Cents)

If wanted made up, add per joint for grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

Wrought Iron Gas Pipe
⅛@¼-in., black.....discount, 60%
⅜@½-in. ..... " 60,10&5%
¾-in. to 6-in.. black... " 70%
7 " 12 " .. " 62½%
@¼ galvanized " 42%
@½ " " 50%
¾ " 6 " " 57½%
7 " 12 " " 45%

PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench.....25&5%

PLANTERS.

Corn.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Segment..... " .. 9 00

Potato.
Acme.....per doz..$6 25
Challenge..... " ..11 00
Pingree..... " .. 2 25
Eureka ..... " .. 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—In. 4½ 6 8 10
Per doz.....$2.75 $3.35 $4.15 $5.15

Button's Pattern.
In. 4½ 6 8 10
Per doz.....$2.15 $2.40 $2.90 $3.75

Cutting.
Bernard's.....30%
Lodi.....50%

End and Diagonal Cutting.
Swedish Side 70%
Utica Drop Forge & Tool Co....50%

Fencing.
Farmers' Choice....per doz ..$6 00
Russell's..... " .. 8 25

Flat and Round Nose.
Bernard's.....30%
German 65%
Lodi.....50%
Paragon.....50%

Gas—In. 6 8 10 12
Per doz...$2.35 $3.00 $4.00 $5.0

Tinner's.
Hollow.... .....40%
Solid..... each..5½c

PLUMBS AND LEVELS.

Common.....60&10&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

POINTS.

Drive Well Points.....75&5%

POKERS—STOVE.

Wr't Steel, str't or bent, pr doz.$0.55
Wr't Steel, wood hand'l " " .80
Nickel pl'td, coil hdl's.. " " .65

POKES—ANIMAL.

Cracker Jack, wr't steel, per doz.... .....$4.50

POLISH.

Metal.
Pride of the Bar.....$1.60

Putz Cream.

Pts.	1-6	½	¼
Per doz.....	$0.60	$1.10	$1.65

Pts	1	2	8
Per doz	$3 75	$4.50	$7.50 $12.50

White Silk half pints, per doz.$3.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine

Pts.	1-6	½	1	2
Per doz.....	$0.70	$1.35	$2.25	$3.00

George William Hoffman.
U. S. Metal Polish Paste, 3 oz. boxes, per doz., 50c; pr. gro..$4.55
½-lb. boxes, per doz..... 1.20
1-lb. boxes, per doz..... 2.25
U. S. Liquid, 8 oz. cans, per doz., $1.25; per gro.....12.00
Barkeepers' Friend Metal Polish, per doz., $1.75; per gro..18.00

Shoe.
M. D. C.....per doz. 36c@50c
F. C. O..... " 40c
T. M..... " 55c@$1.75
Imperial.....per gr.....$5.00

Stove.
Black Eagle, 1 ℔ cans. pr gr..$15.00
Black Silk—
5 ℔. pail.....$0 70
Paste, 5 oz. cans....per doz. 75
Paste, ½ lb. cans.... " 1 05
Liquid, ½ pint cans..per doz $1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1 ℔ cans....pr gro. 13 00
Black Jack, ½ ℔ cans.. " 9 25
Dixon's Carb. of Iron.. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, ..$ 95
Square, 1½ qt..... " 1 10
Square, 2 qt..... " 1 25
2 qt. Reversible..... " 1 60

POTS, FIRE.

Bernz.....each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City.....each 6 25
Gem.....ea..$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co....25%
Menis .....per doz. $1 85

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

PULLERS.

Cork.
Daisy.....each $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70

Nail.
Giant.....per doz..$10 50
Giant Pattern..... " .. 6 00
Jumbo ..... " .. 9 00
—Gian *Tackt*..... " .. 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5 in.....per doz. $1 75
Wood Wheel, 6 in.... " 1 75
Wood Wheel, 6 in., pass knot..... " 2 15
Hot House—Jap'd .....50&10%
Screw..... " 60%
Side ..... " .....50&10%
Sash.
Commo.....per doz $0
" n Sense, 2 in .. "
Empir Pattern, 2 in.. "
Ideal.....e..... "
.....

PUMPS

Pitcher Spout.

Nos.	1	2	3	4
Each	$1.10	1.23	1.40	1.85

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
" copper ..... " 6 75
Daisy..... " 9 00
Little Giant.....each 2 25

PUNCHES.

Conductors'.
No. 22.....per doz. $2 25
Machine.....per ℔. 19
Saddlers'.
Common.....per doz. 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 ℔s. 2 25

RAIL.

Barn Door.
Crescent T..... 4½c
Double Flange..... 2½c
Matchless, 1 in..... 3c
Matchless, 1½ in..... 3½c
Storm King..... 4c
World's Best 7c

Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron... " 5½c

RAKES.

Coal or Wood.....per doz. $5.20

Garden.
Steel.....70&10%
Steel, bow.....70&10%
Malleable Iron, heavy.....70&5%

Hay.
Wood.....$1.50@$2 00

Lawn—Wood.
XXX .....per doz. 3 00
Automatic ..... " 5 25
Lawn Queen..... " 3 00
Jumbo, 36 teeth..... " 5 50

RASPS—See Files.

RAZORS.

Bo-ras-ic 50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.
Black and White Japanned.....66⅔%
Nickel Plated.....66⅔%
Electroplated, Brass, Bronze or Copper.....66⅔%

RINGS

Bull.

Copper.....	2½ in	3 in.
Per doz.....	$1.40	$1.80

Rea's Impro'd Self Piercing

copper, pr d's.	2.00	
Steel per doz..	.85	.95
Nickel Plated	1.35	...

and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes..... " 47
Major Rings ..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers... 80

Fruit Jar.
White.....per ℔ 30c

Key.
Split, round.....per doz. 17c
Split, square..... " 32c
Ball, Round..... " 32c

RIVETS.

and Burrs.
Copper Belt 20%
Coppered Iron .....60&10&5%
Tinners' .....60&10%
Hame .....per ℔. $0 10
Slotted Clinch.....per doz. 40c@45c
Tubular.
Nos. 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels..per ℔. 11½c
⅜, 5-16-in. Com. in coils .. " 12c
¼, 5-16 Imperial in coils . " 21c

Steel.
1st quality.....12 c
Hardware Grade, rates.per ℔. 10 c

Pure Manila.
1st quality..... " 15½c
Hardware Grade, rates. " 14½c

RULES

Boxwood.....60%
Ivory .....

SASH WEIGHTS.

See Weights

SAWS.

Back.
Disston's 25%
Jackson's.....25%

Butchers'.
Disston's..... ....30%

Circular.
Disston's.....50%
Hiles'.....50&10%

Compass.
Common.....per doz. $1.35@$1.60
Disston's.....25%

Cross-Cut.
Disston's.....45%

Dehorning.
Disston's..... " 5 75

Hack.
Disston's.....25%
Keystone.....30%

Hand and Rip.
Brown's 30%
Disston's No. 7.....30%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list) 25%
Keystone.....30%
Enterprise, hand.....per doz.$5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50

Keyhole—Disston's.....25%

Kitchen.
Sterling.....25%

One Man 50%

Panel.
Brown's.....30%
Disston's No. 7.....30%
Disston's No. D100.....25%

Pruning.
Brown's.....25%
Disston's.....25%

Wood.
Common.....per doz. $4 50
Clover Leaf..... " 6 50

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
" painted.... " 1 70

SCALES.

Counter.
Pelouze..... .....40&10%

Platform.
Osgood.....50%

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 70
1 " " " 15 00

SCRAPERS.

Box.
Triangular..... 4 00

Cabinet.
Cast Steel..... " 60c@75c

Road.

Cubic ft.	7	5	3
Without runners, ea.	$4.00	3.75	3.50
With runners.... "	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in,.....	1	1½	1¾
	$3.50	$4.00	$4.75

Wood, white maple..per doz. $3 50
Hand—Wood.....10%
Hand Rail.....20&10%
Jack .....70&10&5%
Lag or Coach—all sizes, gimlet pointed.....75&5%

Saw—Centennial.

Nos.	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&5%
R. H. Blued.....85%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

SCYTHES.

Clipper, grain.....per doz. $956
Clipper, grass..... " 6 27
Clover Leaf Dutchman "
Honest Dutchman..... 720
BeVe B.....

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
No. 5 Square,..... " 75
Cup Point, knurled pr. doz.....75
Steel.
Farmers'.....per doz. $1 20
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch... " 6 50
" X Cut..... " 12 00
German ..... " 1 05
Morrill's Old Style... " 5 00
" Pattern.... " 3 25
Leach's..... " 80
Nash's Hand..... " 3 15
" X Cut..... " 4 20
Stillman's Lever..... " 1 20
" X Cut..... " 3 50

SHARPENERS, SKATE.

Diamond.....per doz. $1 60
Smith & Hemenway.....30%

SHAVES, SPOKE.

Iron.....per doz. $1.10@$1.85
Wood..... " 2.75@ 4.75
Bailey's.....50&5%
Goodell's.....15%

SHEARS

Pruning.
Buckeye, No. 1.....per doz. $5 75
" No. 2..... " 7 40
California Pat.. 9 in.. " 3 20
" " 10 in.. " 4 00
Draw Cut, No. 3..... " 13 75
" " No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 $2.10 $2.90 $2.80
Star.....per doz. $4.00
Sheep—No. BBA.
Inches..... 6 6½ 7
Reg. Grip..... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 $0.42 $0.70
Hatfield's.
Per set..... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.

Union..... per doz. $6.75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No. 2 Woodford .....per doz. $5 50
No 182..... " 6 00
Ames' new list.....Discount 12½%
Per Doz.
Neverbreak, hollow, bck, blk. $15 75
National.... " " " 14 75
Buckeye .... " " " 10 00
Mohawk.... " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Black Diamond.....per doz $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ame's new list.....Discount 12½%
Snow.
Per doz.....$1.65@$9.00
Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....50&10%
Enameled, White.....50&10%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $5 25
Patent Loop " .... " 4 75
" " Grass..... " 4 50

SNIPS, TINNERS'.

Wiss.....40%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 24
Per doz.... 30c 35c 40 45c

Reliance.
Per doz.....light $1.25; heavy $2.50
Star.
Per doz..... light 90c; heavy $1.35
Torrey's.....per doz. $1.35
Warner's No..... 11 13
Per doz..... 75c $1.35

SQUARES.

Steel and Iron.....70%
(Add for luing, $2.50 per doz., net)
Mitre.
Try.
Try and Bevel
Try and Miter.
Fox's.....per doz. $5.75
Winterbottom's 70%

SQUEEZERS, LEMON.

Common Wood.....per doz $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
" glass bowl.. " 2 35
Little Giant, tin'd iron. " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated.... " 4 50

STAPLES.

Blind.
Barbed.....per ℔ 9¼@9½c
Butter Tub..... " 8@8½
Fence—less than carload.
Polished.....per 100 ℔ $2 30
Galvanized ..... " 2 60
Netting.
Galvanized.....per 100 ℔ 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....80-10&10%
Extra heavy.....75&10%

STEELYARD.

Discount 25%.

STONES.

Axe.
Hindostan.....per ℔ 5½@7c
More Grit..... " 9½c
Washita..... " 17 c
Emery..... 60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz. $23 00
Arkansas Soft..... " 15 50
Hindostan .....per ℔ 6½@6¾
Oil—Unmounted.
Arkansas Hard.....per ℔ $3 05
Arkansas Soft..... " 1 10
Lilly White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita ..... " 26
Scythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille..... " 7 00
Quinnebog..... " 5 00
Red End..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated.. " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz. prs. $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Exelsior ..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's..... " 6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety ..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per ℔ 07
Wrought Steel.....per gro. $4 50

TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut .....90&20%
Upholsters Wire.....90&10%
Double Pointed.....90%
Copper.....per ℔ 32c
Canvas Nails.....75&5%
Clout Nails .....75&10%
Hungarian Nails.....80%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&5%
Other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Disston's Universal.....40%
Miniature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Balloon.....per doz. $1 15
Harper's..... " 1 25
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker...per doz. holes $0 13
Tin Choker..... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation.. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 2 75

TROWELS.

Brick.
Clover Leaf.....33⅓%
Brade's.....15&5%
Disston's.....30%
Rose's.....25%
Plasterers.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed.... $3.00 $3.85 $5.50
Full Ironed.... 3.45 4.50 6.45

TUBS, WASH.

Standard, Wood				Ex.
Nos.....	3	2	1	large
Per doz....	$5.00	$6.00	$7.00	$ 9.50
Dowell.				
Per doz....	5.35	6.35	7.00	9.50
Cedar.				
Per doz....	6.10	7.10	7.90	10 80
Indurated.				
Per doz....	8.55	9.45	10.80	13.50
Galvanized.				
No			2	3
Per doz.....		$6.00	$6.75	$7.75

TWINE.

Per ℔
3-ply Cotton Wrapping.....35c
4 " " " 35c
4 " " Extra Wrapping.....27c
4 " " " Hvy. Wrapping..25c
4 " " Wrapping on tubes...27c
3 " " " " cones...25c
4 " " " " " ...25c
India Hemp, ¼-lb. balls.....19c
" " ½-lb. " 18c
" " ¼-lb. " .....doz. 75c
3-ply Jute, ½-lb. " 14c
3-ply " ½-lb. " 13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-℔ balls.....9½c
Seine.

Nos.....	9	12	15+
Soft.....per ℔	26½	26	25
Med..... "	26½	26	25
Hard..... "	27	26½	26

Staging, ½-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " 23c
3-ply "B" in hanks.....18c
4 " "B" " 18c
3 " "A" 27c
3 " Silver Finish, in hanks....37c
Fodder or Lath.
130 strand 6½c
0 20 strand.....7

VISES.

Phoenix.....30%
Cheney's 20%
Parker's Oval Slide.....50, 10&2½%
Phoenix Oval Slide,

In.	3½	3	3½	4½
Ea.	$1 35	$1 50	$1 85	$2 75

Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box..... ....40&5%
Adam's Mechanics'.....each 2 50
Williamson Universal,.....60%

WARE.

Stove Hollow Ware.
Plain or Unground.....50&10%
Ground Ware.....40&10%
Enameled Ware.....40%
Country Hollow Ware, per 100 lbs. $3.00
White Enameled Ware.
Maslin Kettles .....65&5%
Covered Ware, Tin'd and Turn'd 35-10%
Enameled.....45&10%
Glue Pots, Tinned.....30%
Enameled.....35%
Enameled.
Cherry Blossom and Chrysolite.50%

WASH BOARDS—See Boards.

WASHERS.

Standard O. G. cast iron...per ℔. 2½c
Wrought iron in bulk per ℔.:

In.	½	⅝	¾	⅞	1	1
	9c	6½c	5c	4½c	4½c	4½c	3½c

Wrought steel in 5 ℔. boxes, per ℔.

In.	½	⅝	¾	⅞	1	1
	10c	7c	6c	5½c	5c	5c	4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz.....30
Galling .....per ℔ 10¾
Saw ..... " 8½

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 00

WEIGHTS.

Hitching .....per ℔ 3½c
Sash—F.O.B. Chicago...pr ton $27 50

WHEEL BARROWS.

Common Railroad....per doz..$15 50
Heavy " .... " .. 20 00
Panama Steel Tray " .. 35 00
Klondike " " .. 25 50
No. C4 Tubular " 43 Bryan..each 4 60
No. C5 " " 45 " " 5 25

WHEELS.

Corundum .....70&10&5%
Emery .....75&25%
Well In. 8 10 12 14
Per doz.....$2.10 $2.50 $3.15 $5.00

WIRE.

	Painted.	Galv'd.
Barbed Carloads..per 100 lbs..	$2.60	$2.90
Less than car " ..	2.65	2.95
Brass.		
In coils		20%
In 1 ℔ spools, new list		50%
Broom—Tinned		60&10&10&10%
Cable—Same price as Barbed Wire.		
Copper.		
In coils		20&10%@33⅓%
1 ℔ spools, new list		50&10%
Fence—Smooth.		
Nos. 6 to 9, An'eal'd, pr 100 lbs.		$2.20
Nos. 6 to 9, Galv'd... "		2.60
Hair—New list		50%
Market.		
Bright, full bdles		70&5%
Bright, broken bdles		70%
Coppered, full bdles		70%
Coppered, broken bdles		65&10%
Tinned, full bdles		70&5%
Tinned, broken bdles		65&10%
Picture—In coils		80%@80&10%
In 5 ℔. spools.		per ℔..20c
Plain—Small lots		$2.10
Car lots		2.05

Small spools 5c per hundred higher.

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....55c net
Always Ready.....50%
Coe's Standard.....40&10&5%
Agricultural.....70&10%
Ellis Adjustable.....25%
Malleable "S".....per ℔. 06c
Malleable..... " 06c
Stillson Pipe.....70%
Trimo " .....65&10%

WRINGERS.

No. 22, Guarantee....per doz. $22 5
No. 110, Guarantee.... " 22 5
No. 110, Brighton..... " 22 50
No. 110, Bicycle ..... " 31 50
No. 500, Royal . ..... " 32 50
No. 350, Universal.... " 28 00
No. 300, Novelty..... " 28 00
No. 310, Keystone .... " 28 00
No. 100, Rival..... " 33 50
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Automatic Adding Machine Co., New York

Ash Sifters

Hill Dryer Co., Worcester, Mass

Ammunition

Peters Cartridge Co., Cincinnati, O

Boilers—Steam

Boynton Furnace Co., Chicago, Ill
Thatcher Furnace Co., Chicago, Ill

Bolts

Columbus Bolt Wks., Columbus, O
Star Expansion Bolt Co. New York, N.Y

Boxes—Hardware

Green, A. H., New York

Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y

Cans

Stuber & Kuck, Peoria, Ill

Carpenter Benches

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Carpenters' Tools

Bemis & Call Hardware & Tool Co., Springfield, Mass
Davis & Cook, Watertown, N. Y
Duby & Shinn Mfg. Co., Branchport Station, Long Branch, N.J
Griffin Mfg. Co., Erie, Pa
North Bros. Mfg. Co., Philadelphia, Pa

Carriage Forgings

Columbus Bolt Works, Columbus, O

Ceilings

Berger Mfg. Co., Canton,
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley-Voshardt Co., Chicago, Ill
Keighley Met. Ceiling Co. Pittsburg, Pa
Milwaukee Corrugating Co., Milwaukee, Wis
Northrop, Coburn & Dodge Co., New York, N.Y
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Wheeling Corrugat'g Co., Wheeling, W.Va

Cement—Plumbers

Obermayer Co., S., Cincinnati, O

Cement—Roofing

Conners, Wm. Paint Mfg. Co. Troy, N.Y

Chains

Bridgeport Chain Co., Bridgeport, Conn

Chains—Jack and Safety

Hungerford, U. T. Brass & Copper Co., New York
Oneida Community, Oneida, N.Y

Chimney Tops

Holland Furnace Co., Holland, Mich
Iwan Bros., Streator, Ill
Kramer Bros. Fdy. Co., Dayton, O

Chutes—Coal and Wood

Chappell Furnace Co., Morenci, Mich

Clips—Carriage Trimmer's

U. S. Clothes Pin Co., Montpelier, Vt

Clothes Dryers

Hill Dryer Co., Worcester, Mass
Mannen & Esterly, Cleveland, O
Martcross Co., Chicago

Clothes Pins

U. S. Clothes Pin Co., Montpelier, Vt

Coil Springs

Pullman Mfg. Co., Rochester, N.Y

Commode Pails

Pierce & Laux. Burlington, Iowa

Conductor Hangers

Berger Bros. Co., Philadelphia, Pa

Conductor Pipe

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, Ohio
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Cookers—Steam

O-hi-o Cooker Co., Toledo, O

Copper and Brass

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Corn Cribs

Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Cornice Brakes

Bertsch & Co., Cambridge City, Ind
Dreis & Krump Mfg. Co., Chicago
Niagara Machine & Tool Wks., Buffalo, N.Y

Corrugated Iron

Sykes Steel Roofing Co., Chicago, Ill

Cut Offs—Rain Water

Cooney & Geiger, Indianapolis, Ind
La Crosse Steel Roof. Co., La Crosse, Wis
Milwaukee Corrugating Co., Milwaukee, Wis

Cutlery

Weiss, L. T., Brooklyn, N.Y

Dampers

Howes, S. M., Co., Boston, Mass
Sayre Stamping Co., Sayre, Pa

Dictionaries

Ogilvie, Geo. W., Chicago, Ill

Eaves Trough

Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Iwan Bros., Streator, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Milwaukee Corugating Co., Milwaukee, Wis.
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Whitacre, J. E. Mfg Co., Rockford, Ill
Wheeling Corrugating Co., Wheeling, W. Va

Elbows—Conductor Pipe

Canton Mfg. Co., Canton, O
Dieckmann, F., Cincinnati O
Milwaukee Corrugating Co., Milwaukee, Wis.
Eller Mfg. Co., Canton, O
Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugating Co., Wheeling, W. Va

Elbows—Stove Pipe

Reeves Mfg. Co., Canal Dover, O

Electrical Supplies

Manhattan Electrical Supply Co., Chicago, Ill

Electro Plating Outfits

Hanson & Van Winkle Co., Chicago, Ill

Elevators

Kimball Bros. Co., Council Bluffs, Ia

Enameled Ware

Lalance & Grosjean Mfg. Co., Chicago
Lisk Mfg. Co., Canandaigua, N Y
Paxton & Gallagher Co., Omaha, Neb
Star Enameling and Stamping Co., Pittsburgh, Pa

Fencing—Wire

Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Files

Carver File Wks., Philadelphia Pa
Disston Henry & Sons, Philadelphia Pa

Firearms

Marlin Firearms Co., New Haven, Conn
Remington Arms Co., Ilion, N. Y
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Firearms—Accessories

Marlin Firearms Co., New Haven, Conn
Remington Arms Co., Ilion, N. Y
Stevens, J. Arms and Tool Co., Chicopee Falls, Mass

Forming Rolls

Bertsch & Co., Cambridge City Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y

Foundry Supplies

Obermayer, S. Co., Cincinnati O
Stevens, F. B., Detroit, Mich

Furnaces—Gas

Blickelhaupt Skylight Works, New York
Mannen & Esterly Co., Cleveland, O

Furnaces—Hot Air

Beckwith, Estate, P. D. Dowagiac, Mich
Bonnot Co. Canton, O
Boynton Furn. Co., Chicago
Cox, Abram, Stove Co., Philadelphia, Pa
Forest City Fdy. & Mfg. Co., Cleveland, O
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg Co., St. Louis, Mo
Henry & Scheible Co., Cleveland, O
Hess, Snyder Co., Massilon, O
Holland Furnace Co., Holland, Mich
Kelsey Heating Co., Syracuse, N. Y
Keith Furnace Co., Des Moines, Ia
Lennox Furnace Co., Marshalltown, Ia
Mannen & Esterly Co., Cleveland, O
May & Fiebeger Akron, O
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Peck-Hammond Co., Cincinnati, O
Ralt, Walter S. & Co., Chicago, Ill
Robinson Furnace Co., Chicago, Ill
Schwab, R. J. & Sons Co., Milwaukee, Wis
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa
Thatcher Furnace Co., Chicago, Ill
Wise Furnace Co., Akron, O
Youngstown Furn. & Supply Co., Youngstown O

Furnaces—Tinners'

Blickelhaupt Skylight Works New York
Clayton & Lambert Mfg. Co., Detroit, Mich
Turner Brass Works. Chicago, Ill
Yost Mfg. Co., G. W., Mechanicsburg, Pa

Furnace Pipe and Fittings

Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer F. & Bro. Co., Peoria, Ill
Michigan Safety Furnace Pipe Co., Detroit, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Robinson Furnace Co., Chicago, Ill

Gas Lamps

Manhattan Screw & Stpg. Co., New York, N. Y

Generators—Low Voltage

Hanson & Van Winkle Co., Newark, N. J
Zucker & Levett & Loeb, New York, N.Y

Glass

Powers & Williams, Streator, Ill

Hand Screws

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Hand Punching Machines

American Lock Nut Co., Oregon, Ill

Hangers—Door

Safety Door Hanger Co., Ashland, O

Hangers—Eaves Trough

Schoedinger, F. O., Columbus, O

Hangers—Garment

Pullman Mfg. Co., Rochester, N.Y

Hardware Jobbers

Clark, Quien & Morse, Peoria, Ill
Paxton & Gallagher Co., Omaha, Neb

Hardware Specialties

Bemis & Call Hardware & Tool Co., Springfield, Mass
Butler Bros., Chicago
Carver File Co., Philadelphia, Pa
Enterprise Mfg. Co. of Pa., Philadelphia, Pa
Holt-Lyon Co., Tarrytown, N. Y
Peck-Hamre Mfg. Co., Berlin, Wis
Peck, Stow & Wilcox Co., Cleveland, O
Pullman Mfg. Co., Rochester, N. Y
Smith & Hemenway Co., New York, N. Y

Heating

Detroit Heating & Lighting Co., Detroit, Mich
Kelsey Heating Co., Syracuse, New York
United States Reg. Co., Ltd., Battle Creek, Mich

Hinges

Lawson Mfg. Co., Chicago, Ill
Griffin Mfg. Co., Erie, Pa

Hollow Ware

Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Horse Nails

Standard Horse Nail Co., New Brighton, Penna

Ice Cream Freezers

North Bros. Mfg. Co., Philadelphia, Pa
Richmond Cedar Wks., Richmond, Va

Kitchen Utensils

Avery Stamping Co., Cleveland, O
Holt-Lyon Co., Tarrytown, N. Y
Lalance & Grosjean Mfg. Co., Chicago, Ill
Lisk Mfg. Co., Canandaigua, N. Y

Lanterns

Berger Mfg. Co., Canton, O
Pritchard-Strong Co., Rochester, N. Y

Lawn Mowers

Clipper Lawn Mower Co., Dixon, Ill
Philadelphia Lawn Mower Co., Philadelphia, Pa

Levels

Baker-McMillen Co., Akron, O
Davis & Cook, Watertown, N. Y

Lightning Rods

Foy & Co., Edw. A., Cincinnati, O
Maner & Son Lightning Rod Co., Preston, Iowa
Security Lightning Rod Co., Burlington, Wis

Mail Boxes

Blick-Williams Co., Indianapolis, Ind
Signal Mail Box Co. Joliet, Ill

Metal—Perforated

Harrington & King Perforating Co., Chicago, Ill

Metal Polish

Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles

Burton, W. J. Co., Detroit, Mich
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roofing Co. Jersey City, N. J
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Mills—Coffee

Enterprise Mfg. Co. of Pa., Philadelphia, Pa

Miters

Whitacre, J. R. Mfg. Co., Rockford, Ill

Mop Heads and Handles

Eagle Cooperage Wks., Circleville, O

Mop Wringers

Eagle Cooperage Wks., Circleville, O

Nails and Tacks—Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Nickel Plating Plants

Hanson & Van Winkle Co., Chicago, Ill

Nuts

American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus, O

Ornaments—Sheet Metal

Gerock Bros. Mfg. Co., St. Louis, Mo

Paints and Paint Specialties

Buckeye Paint & Varnish Co., Toledo, O
Connors, Wm., Paint Mfg. Co., St. Louis, Mo
Dixon, Jos. Crucible Co., Jersey City, N. J
Pitkin Co., Geo. W., Chicago, Ill

Patterns

Gray, G. L., New York, N. Y
Probert School of Instruction, The E. R., Cincinnati, O

Pencils

Dixon, Jos. Crucible Co., Jersey City, N. J

Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Photograph Clips

U. S. Clothes Pin Co., Montpelier, Vt

Pistols

Marlin Firearms Co., New Haven, Conn
Remington Arms Co., Ilion, N. Y
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Polish—Metal

Hoffman, Geo. W., Indianapolis, Ind
Nickel Plate Stove Polish Co., Chicago, Ill

Polish—Stove

Nickel Plate Stove Polish Co., Chicago, Ill

Post Hole Augers

Iwan Bros., Streator, Ill

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Berger Mfg. Co., Canton, O
Hess-Snyder Co., Massillon, O

Punches

American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N. Y

Rasps

Disston, Henry & Sons, Philadelphia, Pa
Carver File Wks., Philadelphia, Pa

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Smith & Hemenway Co., New York, N. Y
Weiss, L. T. Brooklyn, N. Y

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Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Symonds Mfg. Co., E. St. Louis, Ill
United States Register Co., Ltd., Battle Creek, Mich

Rifles

Marlin Firearms Co., New Haven, Conn
Remington Arms Co., Ilion, N. Y
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

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Walworth Run Fdy. Co., Cleveland, O

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Columbus Bolt Works, Columbus, O
Hungerford, U. T., Brass & Copper Co., New York, N. Y

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Stowell Mfg. Co., Jersey City, N. J

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Berger Mfg. Co., Canton, O
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Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Sykes Steel Roofing Co., Chicago, Ill
Wheeling Corrugating Co., Wheeling, W. Va

Roofing Cement

Connors Paint Co., The Wm., Troy, N. Y
Taylor Co., N. & G., Philadelphia, Pa

Roof Paint

Dixon, Jos. Crucible Co., Jersey City, N. J

Rules

Lufkin Rule Co., Saginaw, Mich

Sash Balances

Pullman Mfg. Co., Rochester, N. Y

Sausage Stuffers

Enterprise Mfg. Co. of Pa., Philadelphia, Pa

Saw Sets and Saws

Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt, Greenfield, Mass
Smith & Hemenway Co., New York, N. Y

Screens—Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks

Pullman Mfg. Co., Rochester, N. Y

Screws

Columbus Bolt Works, Columbus, O

Screw Drivers

North Bros. Mfg. Co Philadelphia, Pa

Scuttle Openers

Bickelhaupt, G., Skylight Works, New York, N. Y

Seamless Tubing—Brass & Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Shears

Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N. Y
Weiss, H. & Co., New York, N. Y

Sheets—Black and Galvanized

Berger Mfg. Co., Canton, O
Taylor Co., N. & G., Philadelphia, Pa
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheet Metal Patterns

Gray, G. L., New York, N. Y
Probert School of Instruction, Cincinnati, Ohio

Sheets—Planished

American Sheet & Tin Plate Co. Pittsburgh, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

American Sheet & Tin Plate Co., Pittsburgh, Pa
Taylor Co., N. & G., Philadelphia, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Shot Guns

Marlin Firearms Co., New Haven, Conn
Stevens J., Arms & Tool Co., Chicopee Falls, Mass
Remington Arms Co., Ilion, N. Y

Shovels

Avery Stamping Co., Cleveland, O

Siding

Milwaukee Corrugating Co., Milwaukee, Wis

Skylights

Burt Mfg. Co., Akron, Ohio
Eller Mfg. Co. Canton, O
Galesburg Cornice Wks., Galesburg, Ill
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Skylight Gearing

Bickelhaupt, G., Skylight Works, New York, N. Y
Weiss, H. & Co., New York, N. Y

Slate

Auld & Conger Co., Cleveland, O

Solder

Taylor Co., N. & G., Philadelphia, Pa

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa
Duby & Shinn, Branchport Station, Long Branch, N. J

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Stoves and Ranges

Beckwith, P. D. Estate, Dowagiac, Mich
Champion Steel Range Co., Cleveland, O
Comstock-Castle Co., Quincy, Ill
Culter & Proctor, Peoria, Ill
Glazier Stove Co., Chelsea, Mich
Reeves, S. V., Philadelphia, Pa
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa.
Union Stove Works, New York, N. Y
Willard, Wm. G., St. Louis, Mo

Stove Carriers

Kramer Bros. Fdy. Co., Dayton, O

Stove Cement

Dixon, Jos. Crucible Co., Jersey City, N. J

Stoves—Gas

Stove & Range Co. of Pittsburgh Pittsburgh, Pa

Stove Patterns

Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N. Y
Weller Pattern Co., Quincy, Ill

Stove Pipes

Hemp & Co., St. Louis, Mo
Reeves Mfg. Co., Canal Dover, O

Stove Pipe—Nested

Reeves Mfg. Co., Canal Dover, O

Stove Repairs

Brauer, A. G., St. Louis, Mo
Reeves, S. V., Philadelphia, Pa

Strainers—Sink

Pritchard-Strong Co., New York, N. Y

Sugar Kettles

Sperry, D. R. Co., Batavia, Ill

Tanks

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Tapes

Lufkin Rule Co., Saginaw, Mich

Technologist

Hooper, C. N. Dubuque, Iowa

Test Tube Holders

U. S. Clothes Pin Co., Montpelier, Vt

Thermometers—Oven

Evans Stamping & Plating Co., Taunton, Mass

Tin—Perforated

Harrington & King Perforating Co., Chicago, Ill

Tin and Terne Plate

Taylor Co., N. & G., Philadelphia, Pa

Tools—Linemen's

Smith & Hemenway, New York, N. Y

Tinners' Tools

Berger Bros. Co., Philadelphia, Pa
Lufkin Rule Co., Saginaw, Mich
Niagara Machine & Tool Works, Buffalo, N. Y
Smith & Hemenway Co., New York N. Y
Taylor Co., N. & G., Philadelphia, Pa

Tinplate

Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O
Taylor Co., N. & G., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va

Tinware Trimmings

Berger Bros. Co., Philadelphia, Pa
Butler Bros., Chicago, Ill

Tools, Etc.

North Bros. Mfg. Co., Philadelphia, Pa

Trowels

Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co., New York, N.

Ventilators

Burt Mfg. Co., Akron,
Canton Mfg. Co., Canton,
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago Ill
Globe Ventilator Co., Troy, N Y
Merchant & Evans Co., Philadelphia, Pa
Powers Bros. Streator, Ill
Pullman Mfg. Co., Rochester, N. Y
Schoedinger, F. O., Columbus, O

Wagons

Sycamore Wagon Wks., Sycamore, Ill

Wagon Jacks

Steitz, J. R., Cudahy, Wisc

Washers

Columbus Bolt Works., Columbus, O

Washing Machines

Blackstone Mfg. Co., Jamestown, N. Y
Bramner, H. F., Mfg. Co., Davenport, Ia
Easy Washing Machine Co., St. Mary's, O
Hawkeye Incubator Co., Newton, Ia
Paxton & Gallagher Co., Omaha, Neb
Richmond Cedar Wks., Richmond, Va
White Lily Mfg. Co., Davenport, Ia and Toledo, O

Wire Goods

Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS

HUBERT E. PECK, 623 F. St., N. W. Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale—Retail department of an old house in a southern city. Stoves, housefurnishings, crockery, hardwood, mantels. In same location on principal street since 1872. Address D 59, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-3t

For Sale—Hardware and grocery stock at Whitefish, Montana. About $6,000. Can reduce to $4,000 if necessary. This is a division point on the Great Northern Railway. Apply to McIntosh Hardware Company, Kalispell, Mont. 21-3t

For Sale—Stock of hardware, tinners' tools, paints and oils. Doing good business in southern Wisconsin county seat of 2,000. One other hardware. Stock will invoice $4,300. Good rich country and business satisfactory. Address D 56, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-3t

For Sale—New up-to-date hardware stock in a thriving town of 1,000 in southeast South Dakota. Will guarantee no dead stock. Invoice about $4,000. Large territory; fine location. 15 per cent discount. This is a genuine snap. Address Q. Stark, Hartford South Dakota. 21-3t

For Sale—We can interest you if you are looking for an up-to-date hardware stock in a live town of 1,000 in central Wisconsin. Stock invoices about $4,000. Two-story brick building, $3,500. Annual sales, $15,000. Good reason for selling. No trades. Address D 12, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 20-9t

Wanted—To buy a general stock of hardware, stoves, tinware with good tinshop in some good growing town or country. State amount of stock, business done last year, rent, etc. Address D-53, care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 20-3t

For Sale—Furniture and hardware business with tin and plumbing shop, in good little Oregon town with a population of 800. Stock will invoice about $7,000. Address D-54, care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 20-3t

For Sale—Clean, up-to-date Hardware, Implement and Buggy stock with tinshop in connection. Will invoice about $8,000; yearly sales over $25,000. Good town in Central Ohio. Business established twelve years without any change. In first class condition. Good reasons for selling. No trades. Address D 52, care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 20-3t

For Sale—A valuable stove contract; good profit, together with patterns, tools and advertising matter. This is an excellent opportunity to start in business on a small capital. Address A. W. Bays, Attorney, 601 Marquette Building, Chicago, Ill. 19-2t

For Sale—14 No. 25 Daisy stove trucks, 11 No. 7 Tuckers stove trucks, 1 Common Sense Hexagon gun showcase. All in good condition. Address H. H. Miller, Sheboygan, Wis. 19-3t

For Sale—A general stock of hardware, stoves and tinware. Tinshop in rear with set of tinners' tools. Splendid location. No competition. Rent cheap. Stock and fixtures will invoice $3,000. Will sell for $2,000 cash. Anxious to retire. Address F. A. Scheidt, Joliet, Ill. 19ufn

For Sale—Hardware business, including stoves, cutlery, guns, fixtures and tinshop, in a rich farming community. Only hardware in village of 500. Will invoice about $5,000. A paying business and good reason for selling. G. W. Krieder, Tonica, Ill. 19-4t

For Sale—A first-class stove and tin store with a good tin shop in connection. Well equipped with tools. Old reliable business stand. Selling on account of death of owner. Address, Mrs. M. L. Boyer, West Liberty, Ohio. Box 81. 16ufn

For Sale—Tin, cornice and furnace shop at a bargain in one of the best towns in the state of Colorado. An average business of $8,000 a year. A1 field for out of town. Reason for selling, altitude too high for family. Address D38, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 16ufn

For Sale—A clean and profitable hardware, heating and plumbing business, established in 1888. Will invoice about $7,000. Population 6,000. Sudden death of both members of firm reason for selling. Excellent opportunity. Address Box 147, Cedar Falls, Iowa.

For Sale—A clean and profitable hardware and furnace business. Established 1893. Population about 7,000. Best location in the city and one of the best arranged stores in the state. Will turn over contracts and will make it of interest to some one looking for a good business. Poor health is my reason for selling. Address, J. V. Hyder, York, Neb.

TINNERS' TOOLS.

For Sale—Nearly a complete set of tinners' tools and machines. Practically new; show no wear. Consist of small bench machines standards excepting a wiring machine and small burring and 1-2 in. 30 in. slip rolls, 1 Wright's patent sheet iron folder, 1 20 in. tin folder, 1 brass mounted groover, 1 trough beader, 1 blacksmith's drill press, 1 109 lb. anvil Trenton steel and 1 Trenton 6½ inch jaw, blacksmith's vise, quantity of drills, rivets, rivet sets and all small tools and stock of bolts, copper and tin which go to make up a first-class job tin and repair shop. These are Peck, Stow & Wilcox machines, inclosed pattern. Only forty miles from Chicago on third rail electric line; fare $1.00 round trip. Trains hourly. We have all kinds of tools to fit up a first-class shop. Must be sold by May 25th—first come first served. Call or address Oliver Kreamer, Aurora, Ill.

For Sale—A complete set of tinner's tools. Will sell cheap if taken at once. Address L. A. Kofron, Iowa City, Iowa. 20-ufn

For Sale—The following list of tinners' tools: Stowell's beading machine, with stand; 1 large burring machine, with stand; 1 crimping and beading machine, with stand; 1 wiring machine, with stand; 1 20 in. grooving machine; 1 21 in. bar folding machine; 1 large turning machine; 1 30 in. sheet iron folder; 1 30 in. stove pipe former; 1 8x30 bench plate; 1 square head stake, 3½x5½; 1 round head stake; 1 13 in. hatchet stake; 1 conductor stake 14x14; 1 needle case stake; 1 hollow mondrel stake; 1 20-gutter beader. These tools are in good shape. If you want a bargain, write. Webster-Cook & Co., Mitchell, S. Dak. 19-2t

HELP WANTED.

Wanted—First-class tinner. Man that can cut his own patterns. Eight hour day. Steady job. Address Barrett Hardware Company, Joliet, Ill. 22-3t

Wanted—Five first-class tin roofers. Wages $2.50 to $4.00 per day. Address Charles Skidd, Kenosha, Wis. 22-3t

Wanted—A good all around tinner and clerk. Steady job as long as wanted. Send references and wages wanted. Address D 58, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-3t

Wanted—Traveling salesman for North Dakota; also one for Chicago suburban territory. Must be familiar with tinware and enameled ware and furnish first-class references. Address The Republic Metalware Company, successors to C. Sidney Shepard & Company, Chicago, Ill. 21-3t

Wanted—A good tinner who has some knowledge of plumbing; also to clerk in store in slack time. Address Charles Weydert, Bayou Sara, Louisiana. 21-3t

Wanted at Once—First-class tinner who can do plumbing. Good wages. Address Carl A. Johnson, Escanaba, Mich. 21-ufn

Wanted—An experienced hardware salesman who understands country shop work. German or Norwegian preferred. Steady work and good wages to the right man. Must give references. State wages wanted. No boozer need apply. Address Ad. Tanguay, Lock Box 304, Willow City, North Dakota. 21-3t

Wanted—Experienced furnace and boiler salesman with some trade, to sell leading line of goods in Illinois, Wisconsin and Iowa. State fully particulars as to experience, age and salary expected. Address D 51, care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 20-2t

Wanted—A first class tinner and furnace man, who can do some plumbing. Don't want a boozer and none need apply. Steady job, work the year around without loss of time on my account. State wages wanted, and if married. Address P. O. Box L, Barry, Illinois. 20-3t

Wanted, Immediately—A good all around tinner for shop and outside jobs—one who is sober and willing to do the work just as it comes in the country. Single man preferred. Write at once to C. Scherer & Son, Naperville, Illinois. 20-3t

Wanted—A good all around clerk, tinner and plumber, at once. Good steady job in town of 1,000 people. Must be honest, sober and industrious. State wages and give references. German or Swede preferred. Address Thos. Rawlings, Wakefield, Nebraska. 20-3t

Wanted at Once—A good tinner with experience in roofing, gutters and all-around tinwork. Steady work to a reliable man. State wages in first letter. 25 miles north of Milwaukee. The Kraus and Green Hardware Company, Port Washington, Wisconsin. 20-3t

SITUATIONS WANTED.

Situation Wanted—By young man who has just completed his apprenticeship as a country tinner. Age 21 years. Can do pipefitting, pump and wind mill work, roofing, spouting and all that comes to a country shop. Am no lead pipe man. State wages in first letter. Steady job the year around wanted. Illinois or Wisconsin preferred. Address D 60, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

Situation Wanted—By July 1st with a reliable hardware firm desiring a good steady man to take charge of their shop. Can do plumbing, furnace work, slating, pump and tin work, etc. Was in business twelve years and understand contracting and figuring from plans. Can furnish first-class references in every respect. Am 38 years of age; married, and want a steady job. Have been with my present employer three years. Address D 57, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-3t

Situation Wanted—As traveling salesman for hardware manufacturer by young man with twelve years' experience in the wholesale trade. The last five years and at present representing one of the largest jobbers in the country. Can give best of references as to character and ability. Address D 33, care of THE AMERICAN ARTISAN, 69 Dearborn st., Chicago, Ill. 20-3t

Situation Wanted—As salesman or manager in an up-to-date hardware store. Am a good stove salesman and can give good references. Address D-55, care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 20-3t

Situation Wanted—Young married man who understands plumbing, steam heat and gas fitting wants steady work in small town. Address A. J. Stephens, 7333 St. Lawrence Avenue, Chicago, Illinois. 20-ufn

SPECIAL NOTICES.

WANTED

Foreman for steel ceiling stamping department. Man who can get good results, arrange the handling of stock, and get a first-class output from five or six presses. Address "Stamping Dept.," care of

THE AMERICAN ARTISAN
69 Dearborn Street Chicago. 21-3t

Notice Sliding Sleeve Damper. Patented.

More Burt Evidence

Mill owners are quick to appreciate the value of ventilation. The better the ventilation in the shop, factory or mill, the more work the operatives can turn out each day. Fresh air is the watchword in mills equipped with

Burt Ventilators

The value of such equipment is proved conclusively by such endorsement as the following from the Pioneer Cotton Mills of Guthrie, Okla., under date of January 16th, 1907:

"We are well satisfied with your Burt Ventilators. They are a success in every way."

The force of this testimony lies in the fact that the Pioneer Cotton Mills use 7 30-inch glass top, 5 20-inch and 4 12-inch metal top Burt Ventilators.

Our 64-page general catalogue tells why Burt Ventilators give the best ventilation to mills, factories, public buildings and private residences. Write for it today.

The Burt Mfg. Co.

650 Main Street. Akron, Ohio.

Largest Manufacturers of Oil Filters and Exhaust Heads in the World.

Notice Sliding Sleeve Damper. Patented.

SPECIAL NOTICES.

Special Notice

We want to get in touch with a good jobber or warehouse to distribute our stoves throughout the Northwest. Address with full details, "B-60" care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 16-ufn

Agents Wanted

To sell our specialties in Enamel Ware, to Hardware and House-furnishing Goods Trade. Enamel Specialty Mfg. Co., Box 609, Pittsburg, Pa. 22-4t

Agents Wanted

To sell Japanned Tinware on commission basis to Hardware and House-furnishing Goods trade, and to Scheme Trade. Iron City Tin & Japan Co., McKees Rocks. Pa. 22-4t

FOR SALE

We invite correspondence with an experienced hardware man who would like to buy an established business in the best town in Northern Iowa. Will bear investigation. No traders or land deals. Prices are not cut to pieces and agencies for the best trade-mark lines in the country. Good reason for wishing to sell. This is a snap. Address "Snap," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-1t

Special Notice

HAVE HAD CONSIDERABLE experience calling upon stove manufacturers and hardware jobbers. Can handle specialty to good advantage. Am desirous of making a change. Address "P. D. Q." care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 8-ufn

Special Notice

INTEREST IN MANUFACTURING AND JOBBING SHEET METAL BUSINESS FOR SALE

On account of ill health wish to dispose of controlling interest in $60,000.00 Roofing and Sheet Metal business in thriving city, 200,000 people. Established 17 years and business increasing rapidly. Address, "Ill Health," care of THE AMERICAN ARTISAN, 69 Dearborn St., CHICAGO. 21-ufn

Scrap Bands Wanted

We pay one cent a pound f. o. b. cars your city for the bands that come around sheet iron. Write us or send at once and bill. Must be ½ inch thick and without ragged edges.

THE PECK-HAMRE MFG. CO.
BERLIN, WISCONSIN

FREE

Lesson in Sheet Metal Pattern Cutting.

Write to-day—Address

The E. R. Probert School of Instruction
Box 476, Cincinnati, Ohio

L. W. Richards, Memphis, Tenn., writes: "Inclosed please find check for $2 for which kindly send me the American Artisan for one year and your House Warming Manual as advertised. I consider the American Artisan and Hardware Record one of the most valuable books ever published for my line of business and I wish you success." 11-05

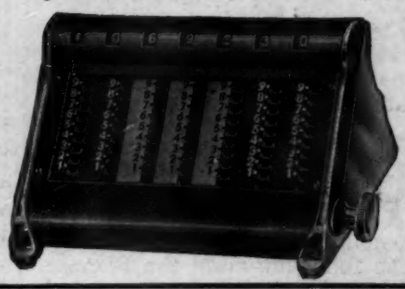
Graphite as a Lubricant—Tenth Edition

The very latest and freshest information, both scientific and practical, on the modern practice of graphite lubrication. Send for free copy 18-C.

Joseph Dixon Crucible Co. Jersey City, N. J.

$15 "GEM" Adding Machine

OVER 3,000 IN USE IN THE HARDWARE TRADE



With a Resetting Device that clears the dials to zero instantly. A High Grade Mechanical Production. Does the work of High Priced Machines. **Carries Totals** automatically. Clears to zero automatically.

ADAPTED TO ALL LINES OF BUSINESS

Let Us Send You One on a 10 Days' Trial, at Our Expense

Address **Mr. A. I. GANCHER**

AUTOMATIC ADDING MACHINE CO.

332 BROADWAY - NEW YORK CITY

Eagle Mop Wringers and Ohio Detachable Mop Heads and Handles

Meet every service demanded of them. WHY? Because they are built upon the correct principles. They have been hailed with delight by users, and the universal verdict is, I WANT NO OTHER. Ask your jobber or write us direct. A catalogue for the asking.

Eagle Cooperage Works, Sole Mfrs., **Circleville, O.**

SPECIAL NOTICES.

Foreman Wanted

To take charge of factory making tinware specialty; one accustomed to dies and presses. Good salary and desirable position for capable man. State experience. Address "Foreman," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 16-ufn

WANTED

I can pay the highest market prices F. O. B. your city, for all kinds of old metals, such as copper, brass, zinc, lead, babbitt, skinnings, etc. Drop a line and I will be glad to name my best prices.
H. KANDER, Bowling Green, Ohio. 3-ufn

Special Notice

Brother Sheet Metal Workers:—Send me your difficulty in a letter, plainly sealed, so I will know just what you want, and enclose a dollar, and I will send you full typewritten instructions, accompanied by drawings if I cannot make it perfectly plain without. No publicity, and no one to laugh at you. I have had more than 25 years experience and am an active sheet metal worker at present. If you are not perfectly satisfied tell me frankly, and I will return your money just as frankly. Address H. E. Osborne, 335 Center St., Salt Lake City, Utah. 19-2t

THE MARTCROSS CO., 40 Dearborn St., CHICAGO

LIPPINCOTT WATER-MOTORS

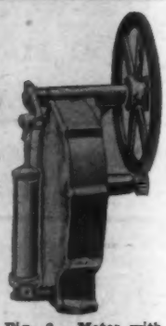


Fig. 3—Motor with Spur Gear Attachment and Air Pump.

For polishing, grinding, running FANS, SEWING MACHINES, WASHING MACHINES, ICE CREAM FREEZERS, etc., etc.

"YOUR FAUCET IS YOUR POWER"

The Best Line a Dealer Can Handle.

Fig. 1—Six-Inch Motor and Emery Wheel.

Fig. 1—shows the 6-inch motor attached to an ordinary faucet, and carrying a small emery wheel for grinding purposes.

Fig. 3—used for charging storage tanks for pumping automobile tires, and for soldering, brazing, artists' air brushes, and other purposes requiring air at a pressure of from 10 to 125 lbs.

We Also Make

ENGINE INDICATORS
REDUCING WHEELS
PLANIMETERS, Etc.

LIPPINCOTT S. S. & S. CO., Newark, N. J.

Gray's Perfect Blue Print Patterns for Sheet Metal Work

160 elbow patterns, from 1 inch to 40 inches, and angle chart	$2.00
Full set of skylight patterns, for 1 inch bar and skylight chart	3.00
Full set of skylight patterns, for 1½ inch bar and skylight chart	3.50
Full set of skylight patterns for 2½ inch bar and skylight chart	4.00
Full set of skylight patterns, for 3¼ inch bar and skylight chart	4.50
Full set of Turret skylight patterns, to operate by gearing	2.00
Full set of (Louver) skylight patterns, to operate by cord and pulley	2.00
Full set of Balustrade patterns and full sized detail	3.00
Full set of Letter and Figure patterns, from 3½x6 to 18x20 inch	$2.00
Full set of Liquid Measure patterns, from 1 gill to 1 gallon	1.00
Full set of Ventilator patterns, from 6 inch to 20 inch and F. S. detail	2.50
Full set of Ventilator patterns, from 20 inch to 36 inch and F. S. detail	3.00
Full set of Metal Window patterns and detail for sliding sash	6.00
Full set of Metal Window patterns and detail for Casement window	6.00
Full set of Metal Window patterns, pivoted top sash, stationary bottom sash	5.00
Full set of Metal Window patterns, pivoted top and bottom sash	5.00

Write for Circulars Giving Full Description to

G. L. GRAY, 1028 Jackson Ave., New York

Where Successful business men have advertised is pretty safe to advertise.

WIZARD

Inverted Gas Lamp

Nine-Tenths Saved

of the cost of Electricity and gives as brilliant a light.

They Sell Easily

and make a rich window display. For the home, office, store, school or public building. We furnish attractive show card, and make

Special Prices to the Trade

MANHATTAN SCREW & STAMPING COMPANY

167 West End Avenue, NEW YORK

HILL'S FAMOUS CLOTHES DRYER

For Lawns, Fire Escapes, Window Balconies and Piazzas

BEST AND MOST POPULAR DRYER IN THE WORLD

Samples to Dealers at Trade Prices.

We also Make the **HUSTLER ASH SIFTER**
THE GREAT COAL SAVER

Made Only By

HILL DRYER CO.

Worcester, Mass.

NEW YORK OFFICE, 373-375 Broadway
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Make More Money

Rural Routes are going in all around you. New boxes are needed on old routes. You should get this business. You *can* get it with

Bates-Hawley Patent **SIGNAL MAIL BOX**

It is the original box for Rural Routes with special endorsements of Postmaster General. The best made, the best liked, the best advertised and the easiest sold.

SIGNAL MAIL BOX CO.

106, Benton St., JOLIET, ILLINOIS.

Blick No. 3 The Best Box

FOR RURAL FREE DELIVERY

$5.88 Per Dozen

BE JUST WITH CUSTOMERS

Sell them Blick No. 3 boxes. They are big ones, 6½x8½x19 inches. Made of heavy galvanized steel. Painted green, the new Government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Water-Tight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

BLICK-WILLIAMS CO.
INDIANAPOLIS, IND.

SCHMIDT HARDWARE CO., Sheffield, Iowa, writes:—"The more we read your paper the better we like it and wouldn't think of getting along without it."

THAT

"BRAUER'S"

is the best place to buy Stove Dealers' Supplies, Castings and Stove Repairs?

Prices Are Lowest. Prompt Shipment.

ADDRESS

A. G. BRAUER, 316-318 N. THIRD ST., ST. LOUIS, MO.

Trade HADDON Mark

S. V. REEVES

No. 50 N. 2nd St., Philadelphia

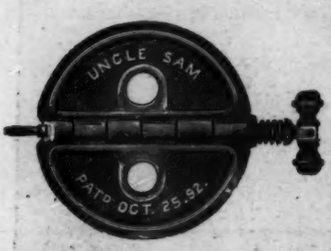
Manufacturer

The LEIBRANDT & McDOWELL STOVE CO.'S STOVES and REPAIRS

TRADE V MARK

NONE BEATS THE

Uncle Sam Damper



It is light, easily adjustable and enduring. The plate is stamped from best nickeled steel and is corrugated to prevent warping. The stem consists of forged steel sharply pointed, notched to engage edge of plate, and is held absolutely in place.

Nothing better on the market
Send for free sample

SAYRE STAMPING CO.
SAYRE, PA.

THE RIGHT KIND
of Oven Thermometer is

THE "Acme"

THE "Acme"

MADE BY EVANS STAMPING AND PLATING CO. TAUNTON, MASS.
Western Agent, C. H. MATTHEWS, Detroit, Mich.

LOW VOLTAGE GENERATORS

For Electroplating.

Rheostats, Voltmeters and Electrical Instruments.

Complete Outfits for Electro-Galvanizing

Bolts, Nuts, Screws, Locks, Staples, Chains and Small Hardware

Complete Nickel-Plating Plants Furnished

Polishing Supplies of All Kinds

THE HANSON & VAN WINKLE CO.
(ESTABLISHED 1820)

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Branch:
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BARKEEPER'S FRIEND

Marble, Glass, Nickel, Brass, Copper, Tin and German Silver

can all be cleaned and polished with it easier than with anything else.

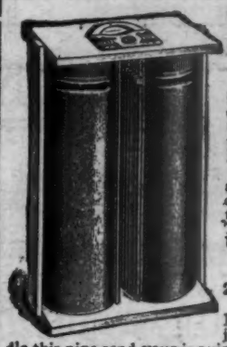
Price 25c per lb.

Highest award:—Chicago World's Fair, 1893; Louisiana Purchase Exposition, St. Louis, Mo., 1904.

Let us send you a FREE SAMPLE.

GEO. WM. HOFFMAN
206 E. Washington St.
INDIANAPOLIS, - I. D.

For Sale by Jobbing Trade



YALE
Russia finish, pat. lock
STOVE PIPE

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

MFD. BY
HEMP & CO.
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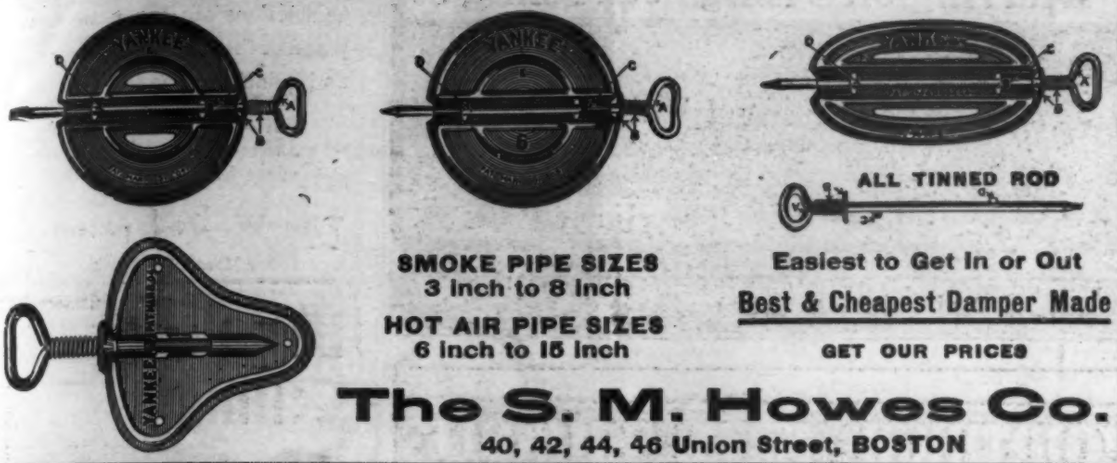

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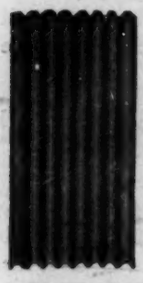

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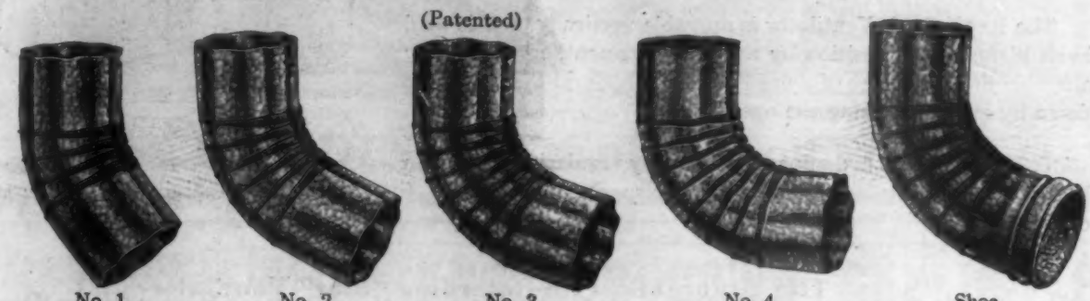

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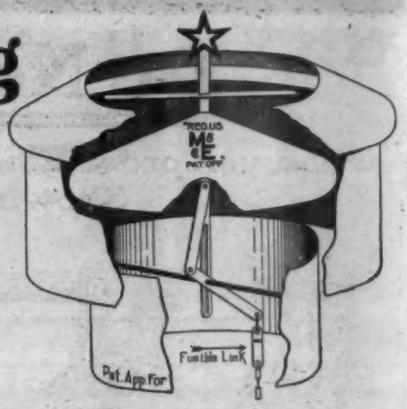

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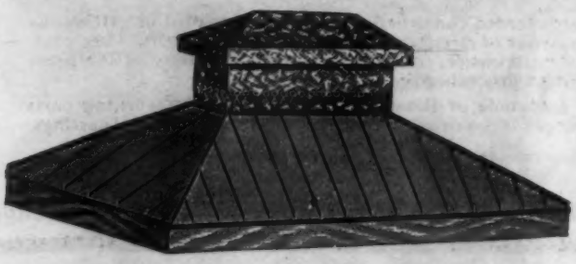

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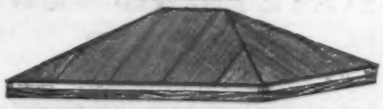

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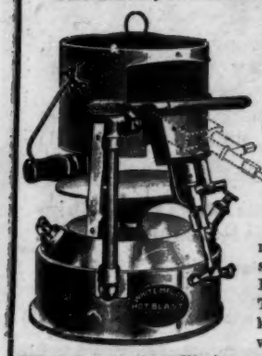

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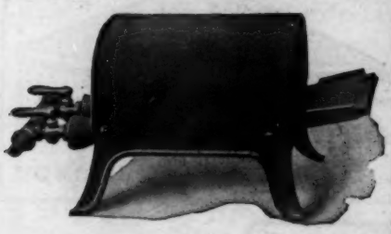

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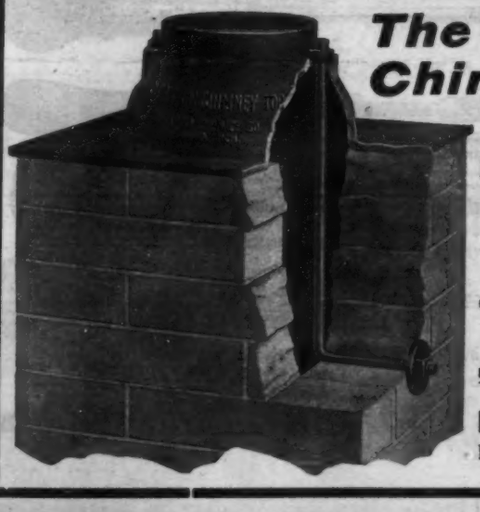

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EXCLUSIVE MANUFACTURERS.

Marlin

The *Marlin* 16 gauge is the only light-weight repeating shotgun in the world and is the handiest gun made for all sorts of game up to geese and foxes.

The *Marlin* 16 is an exact miniature of the famous *Marlin* 12 gauge—built in all the working parts of drop-forged steel; barrel of "Special Smokeless Steel," bored for both black and smokeless powders; stock and fore-end of sound, handsome walnut, and all put together by expert experienced gunmakers.

If you are a shooter of quail, woodcock, grouse, teal, mallards, squirrels or rabbits, you need this gun.

Send six cents in stamps for catalogue describing in detail the whole *Marlin* line of shotguns and rifles.

The Marlin Firearms Co.,

95 Willow St., New Haven, Conn.

SHOO FLY 30,000 IN USE

I am another one of those "**Red Devils,**" and I do worry the **devil** out of **flies,** as I shoot them with a constant current of air all the time.

Stick me on any house faucet and I will convince you that here is another **Red Devil** that will not trouble you, but will trouble flies, and keep the moisture off your brow.

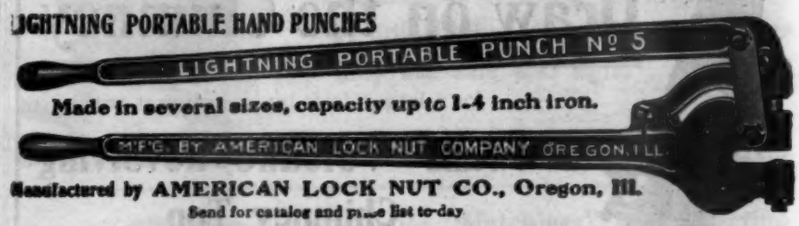
The Genuine Red Devil Water Motor Fan

Ask your jobber for prices and catalog.

SMITH & HEMENWAY CO.

108-110 Duane St., NEW YORK CITY

LIGHTNING PORTABLE HAND PUNCHES



Made in several sizes, capacity up to 1-4 inch iron.

Manufactured by AMERICAN LOCK NUT CO., Oregon, Ill.

Send for catalog and price list to-day

"Yankee" Tools

ARE THE NEWEST, CLEVEREST AND QUICKEST SELLING,

and are without equal in quality or efficiency in practical use.

No. 10 and 11—Ratchet, Right and Left Hand and Rigid

No. 15—Ratchet, With Finger Turn on Blade

No. 30 and 31—Spiral Ratchet, Right and Left Hand and Rigid

No. 40-41-44—Automatic Drill

No. 50—Reciprocating Drill for Wood or Metals

Send for "Yankee" Tool Book

North Bros. Mfg. Co., Philadelphia

Goodell-Pratt Company
GREENFIELD, MASS., U. S. A.
Catalogue Free
HACK SAWS
FAMOUS FOR TEMPER AND CUT
HAND AND MACHINE BLADES OF ALL STANDARD LENGTHS AND WEIGHTS.

AKRON ECLIPSE LEVELS

All glasses in **Akron Eclipse Levels** are carried on elastic bearing and enclosed in heavy glass tubes and are almost unbreakable.

SEND FOR CATALOGUE ILLUSTRATED IN COLORS
The BAKER McMILLEN CO., Akron, Ohio, 13 Bowery St.

COMBINATION PIPE AND NUT WRENCH
Head, Bar and Shank—One Piece Steel Forging.

No. 45 Bright, With Long Nut.

Made from the best materials. Parts interchangeable. A strong and serviceable combination of a nut and pipe wrench. For general utility and all around convenience it has no equal. Send for Catalog and Prices.
BEMIS & CALL HARDWARE & TOOL COMPANY, SPRINGFIELD, MASS.

Cabinet Makers' Benches.

No. 1 BENCH.

We are the largest manufacturers of Benches in the World.

Write for catalog describing our complete line of Cabinet, Carvers, Pattern Makers and Manual Training Benches, Hand Screws, Cabinet Makers' Clamps, etc.
Grand Rapids Hand Screw Co.,
160 South Ionia Street, Grand Rapids, Mich.

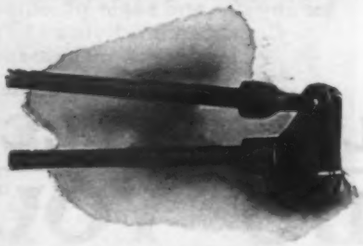
When you sell Levels—Sell the right kind

A Tool you can sell quickly, profitably and satisfactorily to Carpenters, Masons, Machinists, and all who use Levels or Plumbs, is the
DAVIS & COOK LEVEL.
The different Level—with the bulb seen in all positions. Any mechanic will buy when he examines. Put in stock.
For sale by all the leading jobbers. Catalog on request.
DAVIS & COOK. 23 High Street. Watertown, N. Y.

Inclinable Power Press

TOOLS FOR SHEET METALS
INCLUDING
Tinners' and Roofers' Tools,
Shears, Punches, Presses and
Dies, Can-Making Machinery
MADE BY
Niagara Machine & Tool Works,
BUFFALO, N. Y.

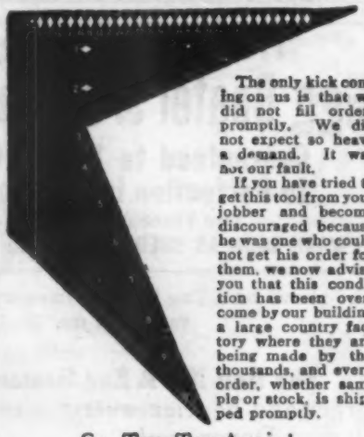
H. WEISS & CO.
20 Cliff St., New York



Hand Punch for No. 10 Iron

Skylight Gearing and Chain Lifts
Tinsmiths' and Plumbers' Tools. Cornice Makers' Tools. Coppersmiths' Tools
Pipe Threading Machines
Second-Hand Goods Bought, Sold and Exchanged

The NEW Universal Square
Is proving itself sure to become the Standard Tool of its kind.
MADE IN THREE SIZES:
No. 6-6" No. 10-10" No. 13-13"

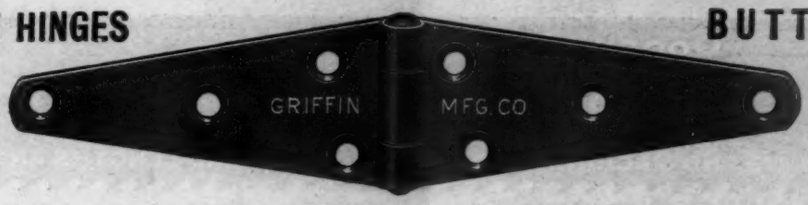


The only kick coming on us is that we did not fill orders promptly. We did not expect so heavy a demand. It was not our fault.
If you have tried to get this tool from your jobber and become discouraged because he was one who could not get his order for them, we now advise you that this condition has been overcome by our building a large country factory where they are being made by the thousands, and every order, whether sample or stock, is shipped promptly.

So, Try, Try Again!
DUBY & SHINN MFG. CO., Inc.
Branchport Station.
Home Office and Works, LONG BRANCH, N. J.

The Fulton Hardware Co., Portland, Ind., write:
"Please discontinue our want ads for tinner and plumber, as we have received more replies than we can take care of at present."

STRAP & T HINGES
Pressed Steel Shelf Brackets



BUTT HINGES
Barn Door Hangers and Track

Our Planished Steel **STRAP and T HINGES** are now all made on Automatic Machinery—Every one is as true as a Die. Our **BUTTS** are unequalled in Workmanship and Finish, All our Goods Guaranteed—**BEST IN THE WORLD.** (And they cost no more.)

THE GRIFFIN MFG. CO., - Erie, Pa.

Magic Pattern Rule **Will Lay Out Patterns**

for any size and angle of elbows in three minutes' time. Can also be used as Straight-edge Rule, Circumference Rule and Trammel. Should be in every Tinshop. Will save its cost in a few weeks. Thousands are in use and every one giving excellent satisfaction.

Price, complete in a nice wooden box with Chart, $4.00 net cash.

LUFKIN RULE CO., Saginaw, Mich. (Mention THE AMERICAN ARTISAN)

DO YOU KNOW **Pierce's Patent Commode Pail**

COMMODE PAIL

is the only one having a latest improved closet seat which need not be removed when cleansing. Seat is on outside of body with braces riveted to side of pail. Made of galvanized iron painted and decorated in assorted colors or finished in white enamel. Packed one fourth dozen per crate.

Get a trial order from your jobber and we assure you, that you will buy none other. If you do not find them better than any made to-day, you may return them to us and we will pay your bill.

FOR SALE by the jobbing trade only.

PIERCE & LAUX
Manufacturers of **Hardware Specialties** Sell to Jobbers Only
BURLINGTON - - - IOWA

HOLT'S Improved DOVER
Egg Beater & Cream Whip
Guaranteed to Beat EGGS to Perfection in 20 Seconds
The Flared Dasher Does It.
WASH SOON AS USED BY TURNING IN WATER.

The above on a Tag is wired to every Egg Beater made by us.

The Holt No. A Egg Beaters are much larger and heavier every way than any 10 cent Dover made.

Retail Price 15 Cents, worth 25 Cents.

The Dashers are wider, thicker and flared ¼ inch. Made in 10, 15, 20 and 25 cent size. 5 years on the market.

Sold by Jobbers. Ask for Price List Circulars.

HOLT-LYON CO., Tarrytown, N.Y.

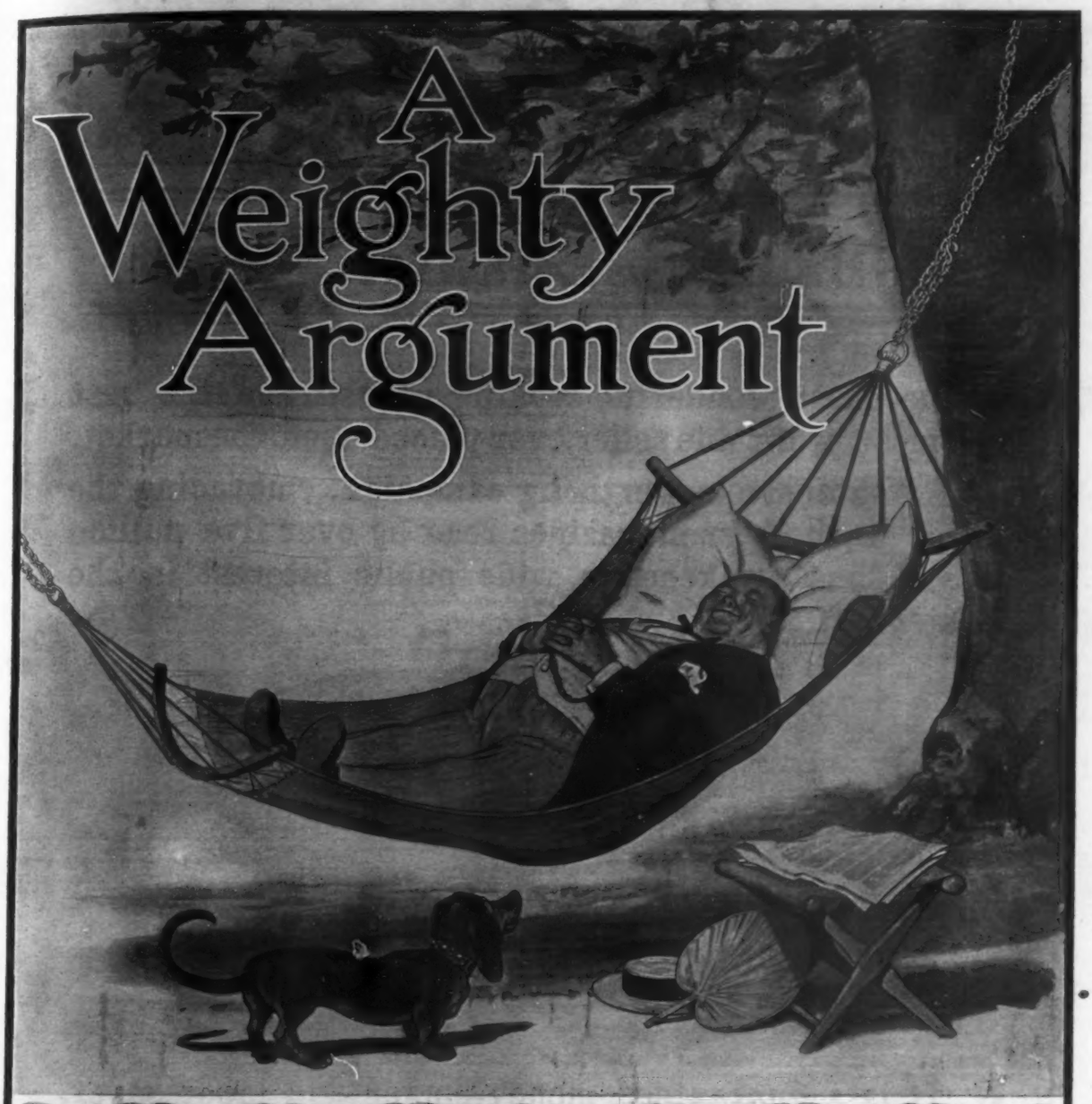
Clipper Lawn Mower Co. DIXON, ILL.

Manufacturers of Hand and Pony Mowers, also Marine Gasoline Engines from 2 to 8 horse power.

THE MOWER That will kill all the weeds in your lawns

If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders or roots, the grass will become thick and the weeds will disappear. The Clipper will do it. If you wish Clippers, send in your orders.

Thompson Bros., Muscatine, Ia.
Write: "Please stop our ad. for Tinner. The first issue brought results."



FOR HAMMOCK

CHAINS

ONEIDA GALVANIZED "HAMMOCK CHAINS" are infinitely stronger than rope. Tested to hold 1,500 pounds. Heavily galvanized; therefore rust-proof. Most easily adjusted. It will not slip. Made in three sizes: 3 ft., 6 . and 9 ft. respectively. Attractively packed one set to a box. A convenient shelf package. Will appeal to every householder.

Be sure you have these chains in stock before the season opens.

DISPLAY HANGERS FURNISHED FREE

ONEIDA COMMUNITY, LTD., ONEIDA, N. Y.

The LISK Sanitary

Self-Basting Enamel Roaster

Is the most wonderful cooking utensil and the best and most profitable seller ever placed upon the market.

¶ An extensive advertising campaign, embracing the use of all the best magazines read by over five million people, has awakened a wide public interest in the roaster.

¶ It is a guaranteed money-maker and labor saver.

¶ Seamless, sanitary, self-basting.

¶ It is manufactured in four sizes from Lisk's celebrated Imperial gray enamel steel ware and is unconditionally guaranteed.

¶ If you do not handle it, send for booklet and prices.

THE LISK MFG. CO., Ltd

Canandaigua, N. Y.

AGATE NICKEL-STEEL WARE

AGATE L&G Mfg. Co. NICKEL-STEEL-WARE

is absolutely free from poisonous substance, is made by careful, experienced men, by a company founded in 1850. The first enameled ware and blue and white ware made in this country was made in our mills. We know how to make enameled ware safe and durable. We make it safe and durable because we are proud of the trade mark. Look for the blue label.

Lalance & Grosjean Mfg. Co.

CHICAGO, NEW YORK BOSTON

Manufactured by The **Wheeling Corrugating Co.**

Wheeling, W. Va.

LOOK FOR THIS STAMP OUR SIGN OF QUALITY

DRIPPING PANS

OUR PANS ARE CAREFULLY AND PERFECTLY FORMED AND COATED WITH A PREPARATION TO PREVENT RUST :: :: :: :: :: MADE FROM THE BEST GRADE EVEN COLOR STEEL SHEETS

Size Nested	4 DOZ. IN A CRATE	List Price Per Doz.
6 x 9		$1.75
6½ x 7¾		1.70
6½ x 9		1.90
6½ x 13		2.45
7 x 8		1.80
7 x 9		2.00
7 x 10		2.10
7 x 14		2.65
7½ x 9		2.05
8 x 10		2.20
8 x 12		2.55
8 x 15		3.05
8 x 17		3.45
8½ x 15		3.10
9 x 12		2.60
9 x 14		3.00
9 x 15		3.45
9 x 17		3.75
9½ x 16½		3.90
10 x 10		2.75
10 x 12		3.05
10 x 14		3.40

Size Nested.	3 DOZ. IN A CRATE.	List Price Per Doz.
10 x 15		$3.50
10 x 16		3.75
10 x 17		4.00
10 x 19		4.25
10 x 20		4.45
11 x 11		3.00
11 x 15		3.90
11 x 16		4.15
12 x 12		3.50
12 x 14		4.00
12 x 17		4.45
12 x 19		4.85
13 x 13		4.00
14 x 14		4.50
14 x 15		4.75
14 x 17		5.00
14½ x 20		6.00
16 x 17		5.50
16 x 20		6.25
18 x 19		6.50

WRITE FOR DISCOUNT.

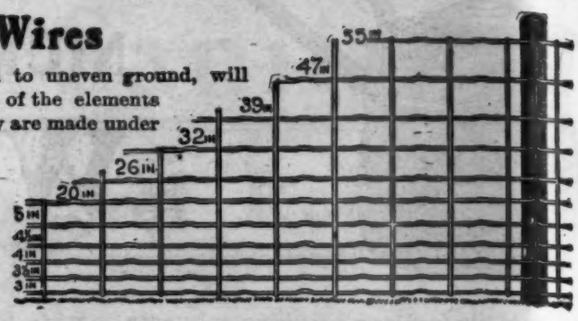
BRANCH OFFICES AND WAREHOUSES:

New York City - - 47-51 Cliff St.
Chicago - - 23-27 N. Clinton St.
St. Louis, - 112, 114, 116 So. Eighth St.
Philadelphia - 402, 404, 406 Race St.
Boston, Mass. - 132 and 134 Pearl St.
Chattanooga, Tenn. - - King St.

LARGE STOCKS OF ALL OUR PRODUCTS ARE CARRIED AT THE FACTORY AND IN ALL THE WAREHOUSES

"Pittsburgh Perfect" Fences

All Galvanized Steel Wires



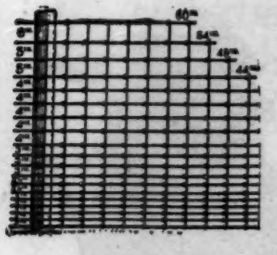
Are durable, strong and adjustable. They can be adjusted to uneven ground, will curb in the strongest beast and will withstand the attacks of the elements longer and surer than any other fence on the market. They are made under the same favorable conditions and as carefully as all the

"Pittsburgh Perfect" Brands

of Wire Rods, Annealed, Bright and Galvanized Smooth Wire, Barb Wire, Twisted Cable Wire, Fence Staples, Wire Nails, Steel Hoops, Bands and Cotton Ties. Dealers can sell goods readily which are

MANUFACTURED BY

The Pittsburgh Steel Co., Pittsburgh, Pa.



THE DENNING FENCE

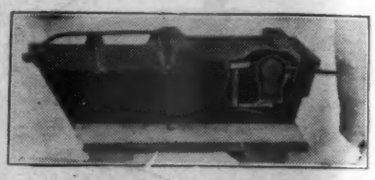
Is the fence that pleases your customer. It is made on scientific and practical principals. It is made in various sizes, weights and meshes, for stock, hogs, poultry and rabbits. We can also sell you Lawn and Cemetery Fencing, Gates, Barb Wire, Nails, Staples, Portable Corn Cribs and Grain Bins.

WRITE FOR CATALOGUE AND PRICES

THE DENNING WIRE & FENCE CO., Cedar Rapids, Iowa

The Hawkeye

Automatic Hog Waterer



We want one Hardware Merchant in each town as exclusive agent.

Paxton & Gallagher Co.

Omaha, Neb.

SOLE AGENTS FOR NEBRASKA

GUARANTEED

Not simply a high sounding but meaningless string of words, neither an empty guarantee to give satisfaction, but a definite, absolute, binding guarantee that this paint will

WEAR FIVE YEARS

or paint for repainting is yours without charge.

That is the kind of guarantee we put on Pitkin's Barn Paint and it lives up to it too.

GEO. W. PITKIN CO.

Paint and Color Makers

Established 1868 **CHICAGO, U.S.A.** **Originators of Barn Paint**

EVERY GALLON GUARANTEED

BUCKEYE

MIXED PAINTS

are the Paints you should handle.

Made from Pure Linseed Oil, White Lead, Oxide of Zinc and Highest Grade Coloring Material

Send for Printed Matter.

Buckeye Paint & Varnish Co.

TOLEDO, OHIO

MAHER & SON LIGHTNING ROD CO. is the only firm that makes a 32 wire cable. Arrow Vanes made of Pure Cast Aluminum; Horse, Cow and Rooster Vanes made of Pure Zinc instead of tin and 34 ins. long, pure copper bayonet points. Giving $500.00 guarantee.

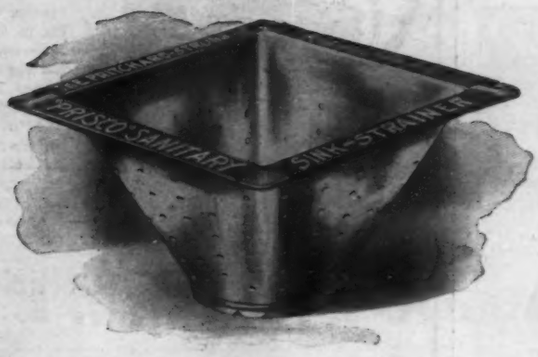
We have the finest static machine now, something new and given to our agents FREE. Write to-day for Agency and territory. Our prices are right.

MAHER & SON LIGHTNING ROD CO., :: PRESTON, IA.

J. F. LEWIS, Cisco, Ill., Writes
"I cannot get along without The American Artisan"

"PRISCO"

SANITARY
SINK
STRAINER



NO EXTRA
STANDARD
REQUIRED

Body made for durability. Consisting of **only one piece** of extra heavy bright Charcoal Tin. Will stand on its own base in any part of sink without additional legs.

The Pritchard-Strong Co.

25 CIRCLE STREET, ROCHESTER, N. Y.

TEN GOOD REASONS

Why You Should Use the Security Copper Tube Lightning Rod in Preference to Any Other:

1. It is constructed on the most scientific principles; receiving the highest award, diploma and medal from the Royal Academy of Science and Arts, Paris, France, April 30, 1897.
2. It has a large, round, smooth surface, the best form for a lightning conductor.
3. It is the only lightning rod patented in the United States with Automatic Water Supply insuring a Perfect Ground Connection at all times, which is the most important part of any rod.
4. It is the only Copper Rod that has a patented Coupling of Pure Copper, which makes the joint the strongest part of the rod.
5. It is held up off the building by a Galvanized Fastener and Galvanized Brace, not resting on the building to form a dam for water to rot the shingles.
6. It is furnished with the most complete and best outfit of fixtures, points, balls and vanes.
7. It is sold by responsible business men, who see that it is properly put up and kept in repair.
8. It has never failed to afford perfect protection from lightning and gives general satisfaction in every respect.
9. The company is responsible and gives you a guarantee on the rods for twenty years, will refund all money received for the rods and pay $500 reward to find a building burned by lightning with their copper tube rods on in circuit form.
10. The above offer has been made for the past 14 years and the reward has never been claimed. This proves that our lightning rods are sure and perfect protection against lightning.

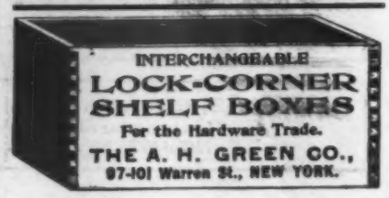
The Security Lightning Rod Co.,

BURLINGTON, WIS.

LIGHTNING RODS

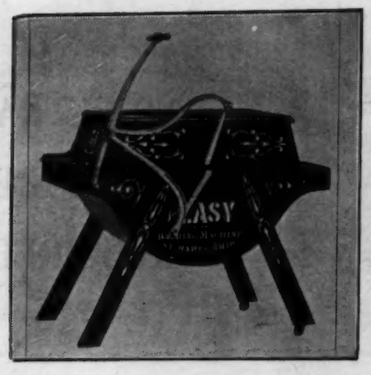
MANUFACTURERS OF
Copper and Galvanized Steel Section, and Copper Cable Rods, 28, 30 and 49 wire. Glass Balls, Weather Vanes of every description.
Static Demonstrating Machines.
ATTRACTIVE PROPOSITION FOR DEALERS

STANDARD HORSE NAIL CO.
NEW BRIGHTON, PA., U.S.A.
MANUFACTURE
A Full Line of Horse Nails
Send for Catalogue, Prices & Samples.



THE EASY
Washing Machine

It Sells on Sight
Stays Sold



Has the largest rubbing capacity and is the EASIEST RUNNING machine on the market.

Write at once for our Attractive, Exclusive Agency Offer.

Manufactured by

The
Easy Washing Machine Company
SAINT MARYS, OHIO

Reciprocating Motion

by means of Compound Levers, combined with time-tried and universally endorsed principles in Clothes Washing—High Speed Ball Bearing Fly-Wheel makes operating next door to

PERPETUAL MOTION

The "One Minute" Washer **washes cleaner** than any other machine.

The "One Minute" Washer we claim, without dispute, to be the **easiest running** machine on the American market.

The "One Minute" Washer does the work in **less time** than others.

Manufactured by
Hawkeye Incubator Company
Newton, Iowa

Indiana dealers address Hawkeye Incubator Co., Indianapolis, Ind., 520 S. Delaware St.
Minnesota and North Dakota dealers address Janney, Semple, Hill & Co., Minneapolis, Minn.
Nebraska and South Dakota dealers address Paxton & Gallagher Co., Omaha, Neb.

J. F. LEWIS, Cisco, Ill., *writes:*
I cannot get along without THE AMERICAN ARTISAN.

The MAJESTIC
WASHING MACHINE

Roller bearings. Large fly wheel. Lightest running Washer on the market. People are writing us daily to know where they can buy the Majestic. It is the quickest seller and commands the biggest profit to you of any Washing Machine made. That is why you should sell it. The tub of the **Majestic** is made of selected **Virginia White Cedar**, and will stand the action of water a life time. It is bound with our celebrated **Electric-Welded Wire Hoops**, is steam-tight and easy to operate. Two hundred thousand satisfied customers will testify to all we say.

We are shipping out 2500 Majestics each week. Write us for catalogue and prices.

Richmond Cedar Works
Manufacturers of Wooden Ware
Richmond, Virginia.

THE
WHITE ROSE

IS WITHOUT A COMPETITOR

It is actually BALL BEARING and has proved the most phenomenal seller ever placed upon the market.

WRITE TODAY FOR EXCLUSIVE AGENCY

WHITE LILY MFG. CO.
TOLEDO, OHIO **DAVENPORT, IOWA**

The Dollars You're After

will come to you with less effort the moment you invest a few of them in a trial order for the

IMPERIAL
ROTARY WASHER

It's noiselessness—easy operation (has all-steel roller bearings)—handsome finish—gold and aluminum bronze castings—help sell it so quickly.

When you write for prices ask for our catalogue. It shows the most complete line of washers on the market.

Established 1871.

THE BLACKSTONE MFG. CO., Jamestown, N. Y.

WASHING MACHINES THAT WILL SELL—SALABLE

WE are the largest manufacturers of family Washing machines, having by far the largest capacity of any in existence. Not alone that but we have **Fifteen different styles** of the most **perfect, up-to-date** washers ever offered to the trade.

If You Are a Wide-Awake Dealer

and

WANT TO MAKE MONEY Sell Our Washers WRITE US

TO-DAY for Particulars.

H. F. BRAMMER MFG. CO.

DAVENPORT, IOWA

SHOW MORE

Practically every hardware store shows and sells "Enterprise" specialties, but do *you* get out of them all the profits there are in "Enterprise" goods? *Show a bigger assortment of COFFEE MILLS, for example, and see the increase in sales.*

"ENTERPRISE"

COFFEE MILLS meet every possible want for households, stores, coffee roasting establishments, etc. Made in every size, style and capacity—all constructed with "Enterprise" thoroughness. More and more are sold every year. Are *your* sales increasing? Write for catalogue and advertising literature.

THE ENTERPRISE MFG. CO. OF PA., Phila., U.S.A.

21 Murray St., New York 436 Market St., San Francisco

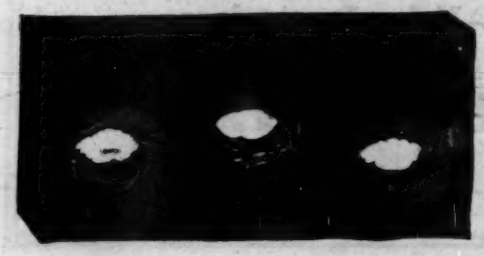
JUN 3 1907

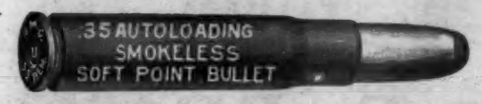
Remington

AUTOLOADING RIFLE

The new, 5-shot, repeating hunting Rifle which *loads itself*, and is "big enough for the biggest game." Calibre .35 Remington; velocity *2000 feet*; weight of bullet, 200 grains. It strikes with the force of a mighty hammer, nearly a ton in weight, and penetrates machine steel 5/16" thick, as shown below. Solid breech, safe-locking system, light trigger pull and loads with clip. Every luxury with rapid-fire, knockdown execution.

It Is the Modern Big Game Rifle. **Sportsmen Want It.** **Order for the Fall Trade.**





REMINGTON ARMS COMPANY
ILION, NEW YORK

AGENCY:
315 Broadway,
New York City.

SALES OFFICE:
515 Market Street,
San Francisco, Cal.

Style A

The Original 1869 pattern, all others are imitations.

Style E

The Big 4 Combination in Lawn Mowers

Send for circular and prices.

The Genuine PHILADELPHIA Lawn Mowers

Unsurpassed Why Perfection

Unequalled Why Simple

Unrivaled Why Durable

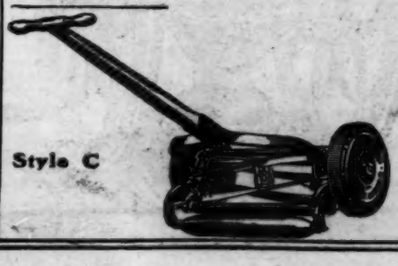
all have the words Philadelphia Lawn Mower Co. cast on the wheels of the mower. See you make no mistake in ordering.

Are made in
6½ to 12 in. wheels
3 to 8 blades
17 style hand
5 horse mower

Standard Mowers the world over.

THE PHILADELPHIA LAWN MOWER CO.

3101 to 3109 Chestnut Street, PHILADELPHIA, PA., U. S. A.



Style C

Style K

SCORES THAT TALK

212 x 215	At Veedersburg, Ind., April 18, made by C. A. Young winning	High Average
513 x 545	At the Texas State Shoot, Mexia, Tex., April 24-26, by L. I. Wade, winning.	High Average
48 x 50	At the Texas State Shoot, Mexia, Tex., 4-26, by Mr. Carter, winning.	Chronicle Trophy
50 x 50	In the Individual Championship event he Texas State Shoot, April 24-26, by L. I. Wade, being the	Only Straight Score
362 x 380	At Chanute, Kan., April 19-20 made by Ed. O'Brien, winning	High Average
113 Straight	By L. I. Wade, at Mexia, Tex., April 25, being the	Longest Run
190 x 200	At Freehold, N. J., April 18, by Neaf Apgar, winning	High Average

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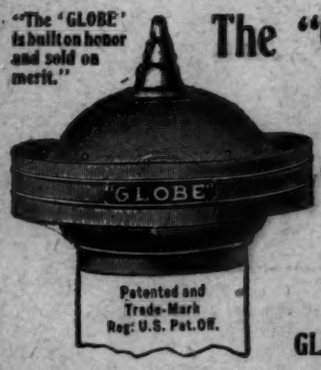

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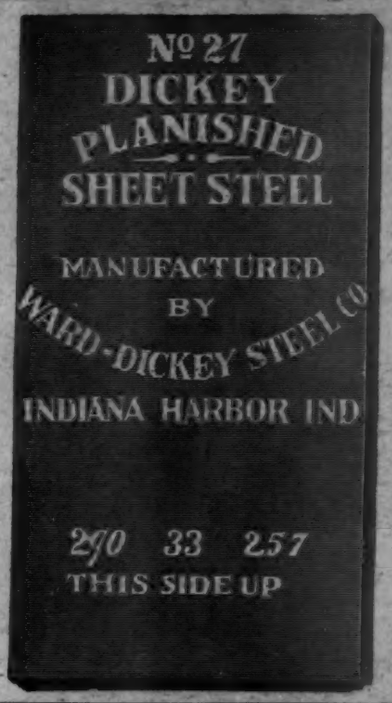

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